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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

OM nucleic - nucleic search, using sw model
Run on: June 8, 2004, 09:27:48 : Search time 1674 Seconds
(without alignments)
9398.758 Million cell updates/sec
Title: US-10-024-579-4
Perfect score: 363
Sequence: 1 atggcttagtcacggcg.....tagtcctagcgggtttatggtag 363
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
Searched: 3470272 seqs, 21671516995 residues
Total number of hits satisfying chosen parameters: 6940544
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

Database : GenBank:*

1: 9b_ba:*

2: 9b_ntg:*

3: 9b_in:*

4: 9b_on:*

5: 9b_oi:*

6: 9b_bt:*

7: 9b_bh:*

8: 9b_bp:*

9: 9b_pr:*

10: 9b_ro:*

11: 9b_st:*

12: 9b_ty:*

13: 9b_un:*

14: 9b_vl:*

15: em_da:*

16: em_fnun:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_ca:*

21: em_cr:*

22: em_cv:*

23: em_bt:*

24: em_bh:*

25: em_b1:*

26: em_xr:*

27: em_sts:*

28: em_an:*

29: em_vr:*

30: em_htg_hum:*

31: em_htg_inv:*

32: em_htg_other:*

33: em_htg_mus:*

34: em_htg_pln:*

35: em_htg_rod:*

36: em_htg_mam:*

37: em_htg_vrt:*

38: em_htg_y:*

39: em_htg_mu:*

40: em_htg_other:*

41: em_htg_other:*

Result No. Score Query Match Length DB ID Description

1 363 100.0 363 6 AX575786 Sequence
2 363 100.0 680 6 AX575790 Sequence
BD275557 Molecules
BC042482 Homo sapi
AX714361 Sequence
AK056631 Homo sapi
BD183414 Novel Gen
AC006001 Homo sapi
AX575788 Sequence
AC146119 Pan trogl
AX887431 Sequence
BD027041 Sequence
AB056802 Macaca fa
AC116246 Rattus no
AC119707 Rattus no
AC122339 Mus muscu
AK027790 Homo sapi
AL035293 Zebrafish
AC117185 Mus muscu
AC122830 Mus muscu
AC110531 Mus muscu
AC110531 Mus muscu
BX49457 Danio rer
BX05483 Danio rer
BC062331 Homo sapi
AK095233 Homo sapi
AX730565 Sequence
U73643 Human Chrom
AP001805 Homo sapi
AC035332 Homo sapi
AP002985 Homo sapi
AP001447 Homo sapi
AC146119 Pan trogl
AC123186 Rattus no
AC125702 Rattus no
AP03032 Homo sapi
AC018610 Homo sapi
AX887690 Sequence
BD027300 Sequence
AX179743 Sequence
BC001062 Homo sapi
BC001929 Homo sapi
AX685169 Sequence
AX774711 Sequence
BC006935 Mus muscu
AC110531 Mus muscu

RESULT 1
AX575786 LOCUS
DEFINITION Sequence 4 from Patent WO20060626.
ACCESSION AX575786
VERSION 1 GI:27552274
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Primates;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleotomi;
Mammalia; Hominidae; Hominini; Catarhini; Homo; Homo.
1 Fiddle, C.J.; Gerhard, B.; Hilbun, B. and Turner, C.A.
REFERENCE
AUTHORS
TITLE Novel human ion channel-related Proteins and polynucleotides
encoding the same

ALIGNMENTS

Pred. No. is the number of results predicted by chance to have a

JOURNAL	Patent: WO 02058626-A 4 06-SEP-2002;
FEATURES	Lexicon Genetics Incorporated (US)
source	Location/Qualifiers 1. 363; /organism="Homo sapiens" /mol type="unassigned DNA" /db_Xref="taxon:9606"
ORIGIN	
Query Match	Score 363; DB 6; Length 363;
Best Local Similarity	100.0%;
Matches	Pred. No. 3. 3e-72; Indels 0; Gaps 0;
Qy	1 ATGGTGTAGTCAGGGCCTCGTACAGAACGGCTCCAC 60
Db	1 ATGGTGTAGTCAGGGCCTCGTACAGAACGGCTCCAC 60
Qy	61 TCTGACGCCAGAGGACTTCTGAGGCCAGGGGGGAC 120
Db	61 TCTGACGCCAGAGGACTTCTGAGGCCAGGGGGGAC 120
Qy	121 GCGTGCCTGCTGTCAGGAGTTCCGAGGTGTCCTAACCTGGAGGGT 180
Db	121 GCGTGCCTGCTGTCAGGAGTTCCGAGGTGTCCTAACCTGGAGGGT 180
Qy	181 CACTCTACAGCGCTCACTGCGTGTACAGAACACCTGTGGAGCCAG 240
Db	181 CACTCTACAGCGCTCACTGCGTGTACAGAACACCTGTGGAGCCAG 240
Qy	241 TTCACTGGGGCACTACATCCAGGATCCGGGGGAGTCTGGAGGAT 300
Db	241 TTCACTGGGGCACTACATCCAGGATCCGGGGGAGTCTGGAGGAT 300
Qy	301 GGACACACTTGGGTATGTCCTCACAACTTGTAGTCCTAGACGTAT 360
Db	301 GGACACACTTGGGTATGTCCTCACAACTTGTAGTCCTAGACGTAT 360
RESULT 2	
LOCUS	AM575790 680 bp DNA linear PAT 07-JAN-2003
DEFINITION	Sequence 8 from Patent WO20068626.
ACCESSION	AM575790
VERSION	GI:27552276
KEYWORDS	
SOURCE	Homo sapiens (human)
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1. Fiddle, C.J., Gerhardt, B., Hillbun, E. and Turner, C.A.
AUTHORS	Never Human ion channel-related proteins and polymucleotides
TITLE	encoding the same
JOURNAL	Patent: WO 02058626-A 8 06-SEP-2002;
FEATURES	Lexicon Genetics Incorporated (US)
source	Location/Qualifiers 1. 680; /organism="Homo sapiens" /mol type="unassigned DNA" /db_Xref="taxon:9606"
ORIGIN	
Query Match	Score 363; DB 6; Length 680;
Best Local Similarity	100.0%;
Matches	Pred. No. 3. 1e-72; Indels 0; Gaps 0;
Qy	1 ATGGTGTAGTCAGGGGGGGAGGAGAACGGCTGTCAGGACCTGGCAGC 60
Db	1 ATGGTGTAGTCAGGGGGGGAGGAGAACGGCTGTCAGGACCTGGCAGC 60

Qy	121	GGGCGCCCTGCTGAGAGCTTCTGAGGTTCCTAACATGGAGGGCT	180	Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati, A.N., Gibbs, R.A.
Db	148	GGGCGCCCTGCTGAGAGCTTCTGAGGTTCCTAACATGGAGGGCT	207	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium (LNL) at: http://image.llnl.gov
Qy	181	CACTCACTACAGCCCTGCACTGCACTGAGAACCCATTGAGGCTG	240	Series: IRAK Plate: 52 Row: 1 Column: 6
Db	208	CACTCACTACAGCCCTGCACTGAGAACCCATTGAGGCTG	267	This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORP analysis, GenomeScan gene prediction.
Qy	241	TTCAGTGGGGCACTACATGCCAGGACTCCAGGGGACTTGGGAGAT	300	FEATURES
Db	268	TTCAGTGGGGCACTACATGCCAGGACTCCAGGGGACTTGGGAGAT	327	source
Qy	301	GGCACACATTTGGCTATGT	320	gene
Db	328	GGCACACATTTGGCTATGT	347	gene
RESULT 4				note="organism="Homo sapiens"
BC042482		1211 bp mRNA		/mol_type="mRNA"
DEFINITION		Homo sapiens potassium channel tetramerisation domain containing 7, complete cds.		/db_xref="MGI:9606"
ACCESSION	BC042482	GI:34731	IMAGE:151657221	/clones="MGC:34731 IMAGE:5165722"
VERSION	BC042482.1	GI:27503737		/issue_type="Brain, adult medulla"
KEYWORD				/clone_lib="NIH MGC_119"
ORGANISM	Homo sapiens			/lab_host="DH10B"
REFERENCE	1	(bases 1 to 1211)		/note="Vector: pCMV-SPORTe"
AUTHORS	Strausberg, R.L., Feingold, B.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altenschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.P., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, P., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,			/note="Vector: pCMV-SPORTe"
SOURCE	Homo sapiens			/note="product="KCTD7 protein"
ORGANISM	Mammalia: Butheria; Primates; Catarrhini; Hominidae; Homo.			/note="protein_id="AAH42482.1"
REFERENCE	279.	536		/db_xref="MGI:27503738"
AUTHORS	Strausberg, R.L., Feingold, B.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D., Altenschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.P., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, P., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,			/note="translation="MVKVTRHPSDRRQDGAMSSDAEDFILEPATPTATGHALPLHFGDVLNFRLRSDLPPRERVAVYTAQYVPLGQLELNPQPLRGEKVKQAOAFLGAMPYVDELETRVILARAVQKARAKPAFKLKVCPKEMPTVYBCLPLNSLFEFERSEDCQRLFEEFKTKT"
VERSION	BC042482.1	GI:27503737		/note="note="R-tetra: Region: K+ channel tetramerisation domain. The N-terminal, cytoplasmic tetramerisation domain (T1) of voltage-gated K+ channels encodes molecular determinants for subfamily-specific assembly of alpha subunits into functional tetrameric channels. It is distantly related to the BTB/POZ domain. Pfam00051"
KEYWORD				/db_xref="CDP:pfam02214"
ORGANISM	Homo sapiens			
REFERENCE	279.	536		
AUTHORS	Scapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L., Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toohiyuki, S., Canninci, P., Prange, C., Rata, S., Loquellano, N.A., Peters, G.J., Cameron, R.D., Mullahy, S.J., Bopela, A., McEwan, P.J., Malek, J.A., Gunaratne, P.H., Richards, S., Wooley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalon, D.K., Muzny, D.M., Sodergren, B.J., Lu, X., Gibbs, R.A., Pahay, J., Helton, B., Kettman, M., Madan, A., Redrige, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Boughard, G.G., Blakesley, R.W., Touchman, J.W., Green, B.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.B., Schnerch, A., Schein, J., Jones, S.J. and Marr, M.A.			
TITLE	Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences			
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)			
MEDLINE	2338257			
PUBMED	12477932			
REFERENCE	2	(bases 1 to 1211)		
AUTHORS	Strausberg, R.	Direct Submission		
TITLE				
JOURNAL				
MEDLINE				
PUBMED				
REMARK				
COMMENT				

RESULT 7	BD183414	BD183414	4807 bp	DNA	linear	PAT 17-JUN-2003	
LOCUS	DEFINITION	Novel Genes and proteins encoded by the genes.					
ACCESSION	BD183414	GI:31875614					
VERSION	BD183414.1	JP 2002345492-A/127.					
KEYWORDS	SOURCE	Homo sapiens (human)					
ORGANISM	Mammalia; Eutheria; Primates; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Homo sapiens						
REFERENCE	AUTHORS	Ohara,O., Nagase,T. and Nakajima,D.					
ARTICLE	TITLE	Novel Genes and proteins encoded by the genes					
JOURNAL	PATENT	JP 2002345492-A/127 03-DEC-2002;					
COMMENT	OS	Homo sapiens (human)					
EN	PD	JP 2002345492-A/127					
	03-DEC-2002						
	26-FEB-2002	JP 2002049009					
	P1	OSAMU OHARA, TAKAHIRO NAGASE, DAISUKE NAKAJIMA					
	PC	C12N15/09, C07K14/47//A61K31/711, A61K38/00, A61K48/00, A61P25/00,					
	PC	A61P25/14,					
	PC	A61P25/18, A61P35/00, C12N15/00, A61K37/02					
	CC	Novel genes and proteins encoded by the genes					
	CC	Location/Qualifiers	Key				
	FT	Location/Qualifiers	(60) . (1989) .				
	CDS	1. :4807					
		/organism=Homo sapiens					
		/mol_type=genomic DNA					
		/db_xref="taxon:9606"					
ORIGIN	FEATURES	source					
	Best Local Similarity	86.8%	Score 315.2; DB 6;	Length 4807;			
	Matches	317;	Conservative	0; Mismatches	3; Indels 0; Gaps 0;		
Qy	1	ATGGCTGATGAGCAAGCCAGGAGCCAGGAGCGCTGCAGAACGGTGCCTAGCTCCGCC	60				
Db	123	ATGGCTGATGAGCAAGCCAGGAGCCAGGAGCGCTGCAGAACGGTGCCTAGCTCCGCC	182				
Qy	61	TCTGACGCCAGAACGACTTCTGAGGCCAGGCCAGGCCAGGCCAGGCCAGGCCAGGCC	120				
Db	183	TCTGACGCCAGAACGACTTCTGAGGCCAGGCCAGGCCAGGCCAGGCCAGGCCAG	242				
Qy	121	GCGCTGCCCTGTCGCCAGAACGACTTCTGAGGTTCTGCCAGGTTCTGCCAGGAGCT	180				
Db	243	GGGTGGCCCTGGTCGCCAGAACGACTTCTGAGGTTCTGCCAGGTTCTGCCAGGAGCT	302				
Qy	181	CACTTCACTACACGCTGTCACACTGCGTGGCTGACAGAACCTTGCTGACGCTATG	240				
Db	303	CACTTCACTACACGCTGTCACACTGCGTGGCTGACAGAACCTTGCTGACGCTATG	362				
Qy	241	TTCAGTGGCGGCGCTGACTACATCCACGACTCCAGGCCGACTACATCCAGGCCG	300				
Db	363	TTCAGTGGCGGCGCTGACTACATCCACGACTCCAGGCCGACTACATCCAGGCCG	422				
Qy	301	GGCACACATTCGGTGTATG	320				
Db	423	GGCACACATTCGGTGTATG	442				
RESULT 8	AC006001/c	AC006001	135044 bp	DNA	linear	PRI 02-OCT-2003	
DEFINITION	LOCUS	Homo sapiens PAC clone RP-756H11	From 7, complete	sequence.			
ACCESSION	AC006001	GI:5708496					
KEYWORDS	HTG.						
SOURCE	ORGANISM	Homo sapiens (human)					
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;					
		This clone was derived from human PAC library RPCI-4, prepared by					
		SOURCE INFORMATION:					
		The sequence of this clone was established as part of a mapping and					
		sequencing collaboration between the NHGRI Chromosome 7 Mapping					
		Project (Eric D. Green, Director), John D. McPherson in the					
		Department of Genetics (Washington University), and the Washington					
		University Genome Sequencing Center. For additional information					
		about the map position of this sequence, see					
		http://www.nhgri.nih.gov/DIR/GBT/CHR7 , send					
		mailto: egreen@nhgri.nih.gov , or see http://genome.wustl.edu					

DR WPI: 2002-731353/79.
 DR P-PSDB; ABG70921.
 XX New human ion channel-related nucleic acid sequences useful for the treatment of cancer, arthritis or as antiviral agents, in therapeutic, diagnostic and pharmacogenomic applications.
 Disclosure: Page 13; 20pp; English.

The invention relates to an isolated nucleic acid molecule encoding a novel human membrane protein/ion channel related protein, including a vector sequence encoding the protein. The nucleic acid and its encoded protein (NHP) in the body. The nucleic acid and the amino acid sequences are useful in diagnosis, drug screening, clinical trial monitoring, the treatment of diseases and disorders and in cosmetic or nutritional applications. NHPs are useful to treat a disease, or to therapeutically augment the efficacy of chemotherapeutic agents useful in the treatment of cancer, arthritis or as antiviral agents. The present sequence is a cDNA encoding a novel human membrane protein/ion channel-related protein.

Sequence 680 BP; 126 A; 212 C; 201 G; 139 T; 0 U; 2 Other; Score 363; DB 6; Length 680; Best Local Similarity 100.0%; Pred. No. 2, 2e-89; Indels 0; Gaps 0; Matches 363; Conservative 0; Mismatches 0;

Qy 1 ATGGTGTAGTCACGGGGGAGCCACAGGGCTCGTAGGACGCTGCGATGTCAGC 60
 Db 198 ATGGTGTAGTCACGGGGGAGCCACAGGGCTCGTAGGACGCTGCGATGTCAGC 257
 Qy 61 TCTGAAGGGAGAGGAGCTTCAGGGGGCAAGGGGCACTGGGGGACAC 120
 Db 258 TCTGAAGGGAGAGGAGCTTCAGGGGGCAAGGGGCACTGGGGGACAC 317
 Qy 121 GCGTGCCTGCTGCGACAGGGGTTCTGAGGGTGGTCCATGGGGGGCT 180
 Db 318 GCGTGCCTGCTGCGACAGGGGTTCTGAGGGTGGTCCATGGGGGGCT 377
 Qy 181 CACPTCACTAACCCCTGCAACACTGGGGTGTACAGAGACACATGGGGCATC 240
 Db 378 CACPTCACTAACCCCTGCAACACTGGGGTGTACAGAGACACATGGGGCATC 437
 Qy 241 TTCACTGGGGGGCACTACATCCACGACTGGGGTACTCTACGACGGGAT 300
 Db 438 TTCACTGGGGGGCACTACATCCACGACTGGGGTACTCTACGACGGGAT 497
 Qy 301 GGCAACACACTTGGGTATCTCTCTACATCAACTTGGTGTAGTCAGGGTAT 360
 Db 498 GGCAACACACTTGGGTATCTCTACATCAACTTGGTGTAGTCAGGGTAT 557
 Qy 361 TAG 363
 Db 558 TAG 560

Query Match Score 363; DB 6; Length 680;
 Best Local Similarity 100.0%; Pred. No. 2, 2e-89; Indels 0; Gaps 0; Matches 363; Conservative 0; Mismatches 0;

Qy 1 ATGGTGTAGTCACGGGGGAGCCACAGGGCTCGTAGGACGCTGCGATGTCAGC 60
 Db 69 ATGGTGTAGTCACGGGGGAGCCACAGGGCTCGTAGGACGCTGCGATGTCAGC 128

RESULT 2
 AAH99183
 ID AAH99183 standard; CDNA; 519 BP.
 AC AAH99183:
 XX 16-OCT-2001 (first entry)
 Db Human protein encoding cDNA sequence SEQ ID NO: 18.

61 TCTGACGCGAGAGCAAGACTTTCTGAGCCGACCCAGGGGGAC 120
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 129 TCTGACGCGAGAGCAAGACTTTCTGAGCCGACCCAGGGGGAC 198
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 121 GCGCTGCCCTGCTGCCAGAGCAAGCACTTCTGAGCCGACCCAGGGGGAC 180
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 189 GCGCTGCCCTGCTGCCAGAGCAAGCACTTCTGAGCCGACCCAGGGGGAC 248
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 181 CACTCACTACACCCCTGCTCACACTGCTGGCTGAGGAGCT 240
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 249 CACTCACTACACCCCTGCTCACACTGCTGGCTGAGGAGCT 308
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 241 TCTAGTGGGGCACTACTCCCACTGGGACTCGAGCTACATCCAGAGAT 300
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 309 TCTAGTGGGGCACTACTCCCACTGGGACTCGAGCTACATCCAGAGAT 368
 Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 301 GGCAACACATTGGTAT 320
 Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 369 GGCAACACATTGGTAT 388

RESULT 3
 ABX71180

ID ABX71180 standard; cDNA; 1068 BP.

XX ABX71180;

XX DT 05-MAR-2003 (First entry)

XX Novel human cDNA sequence #405.

XX Human; gene; ss; nervous system disorder; peripheral neuropathy;
 XX Huntington's disease; amyotrophic lateral sclerosis; haemophilia;
 XX neurodegenerative disease; Parkinson's disease; Alzheimer's disease;
 XX autoimmune disease; systemic lupus erythematosus; rheumatoid arthritis;
 XX insulin-dependent diabetes mellitus; anaemia; thrombocytopenia; wound;
 XX ulcer; burn; bone disorder; osteoporosis; osteoarthritis; stroke;
 XX coagulation disorder; infection; tumour; inflammatory disease; asthma;
 XX Crohn's disease; anaphylaxis; proliferation; chemotactic; septic shock;
 XX haemostatic; antiinflammatory; expressed sequence tag; EST.
 XX Homo sapiens.

XX PN WO200281731-A2.

XX PD 17-OCT-2002.

XX 29-JAN-2002; 2002NO-US001222.

XX 30-JAN-2001; 2001US-00774528.

XX PA (HYSBQ INC. (GOOD) GOODRICH R. W.

XX PR 2003-058563/05.

XX DR WPI; 2003-058563/05.

XX PA Novel polypeptide useful for treating neurodegenerative diseases, myeloid

PT or lymphoid cell disorders, bone disorders, mechanical and traumatic
 PT disorders, coagulation disorders, and inflammatory diseases.

XX Claim 1; Page: 612pp; English.

XX This invention relates to the cDNA sequences encoding an isolated novel
 CC human polypeptide. The protein encoded by the nucleic acid of the
 CC invention is useful for treating central and peripheral nervous system
 CC diseases (e.g. peripheral neuropathy, Huntington's disease, amyotrophic
 CC lateral sclerosis); neurodegenerative diseases (e.g. Parkinson's disease,
 CC Alzheimer's disease); autoimmune disease (e.g. systemic lupus

erythematosus, rheumatoid arthritis, insulin-dependent diabetes mellitus)
 CC ; myeloid or lymphoid cell disorders (e.g. anaemia and thrombocytopenia)
 CC ; wounds, ulcers, burns; bone disorders (e.g. osteoporosis, B-
 CC osteoarthritis); mechanical and traumatic disorders (e.g. stroke, head
 CC trauma; lung or liver fibrosis; reperfusion injury in various tissues;
 CC bacterial, viral or fungal infections; allergic conditions such as
 CC allergic rhinitis; asthma; coagulation disorders (e.g. haemophilia);
 CC cancer and tumours; and inflammatory diseases (e.g. septic shock, Crohn's
 CC disease, anaphylaxis). The protein may be used to inhibit the growth,
 CC infection or function of infectious agents such as bacteria, fungi,
 CC viruses, or to effect bodily characteristics such as biorhythms or circadian
 CC cycles of rhythms. The protein may also have
 CC proliferation/differentiation, stem cell growth factor, haemopoiesis
 CC regulation, immune stimulating or suppressing, chemotactic/chemokinetic,
 CC haemostatic and thrombolytic, receptor/ligand, and antiinflammatory
 CC activities. The cDNA sequences of the invention are useful for expressing
 CC recombinant protein for analysis. The present sequence represents a novel
 CC human cDNA sequence of the invention, this sequence is an expressed
 CC sequence tag (EST) and was identified using subtractive hybridisation
 XX sequence tag (EST) and was identified using subtractive hybridisation
 SQ Sequence 1068 BP; 209 A; 321 C; 325 G; 213 T; 0 U; 0 Other;

Query Match 87.3%; Score 316.8; DB 7; Length 1068;
 Best Local Similarity 99.4%; Pred. No. 1e-76; 0; Gaps 0;
 Matches 318; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGGTGTAGTCAGGGGGAGCCAGGAGCCCTGGCTGAGACCTGGCTGGCGAC 60
 Db 100 ATGGTGTAGTCAGGGGGAGCCAGGAGCCCTGGCTGAGACCTGGCTGGCGAC 159

Qy 61 TCTGACGGGAGAGGAGCTTCTGGACGGGAGCCAGGAGCCCTGGCTGAGACCTGGCTGGCGAC 120
 Db 160 TCTGACGGGAGAGGAGCTTCTGGACGGGAGCCAGGAGCCCTGGCTGAGACCTGGCTGGCGAC 219

Qy 121 GCGCTGGCCCTGGCTGGCAAGAGTTCTGGCTGAGCTTCTGGCTGGCGAC 180
 Db 220 GCGCTGGCCCTGGCTGGCAAGAGTTCTGGCTGAGCTTCTGGCTGGCGAC 279

Qy 181 CACTCACTACAGCCCTGGCACTGGCTTCAAGACCATCTGGCTGGCTGGCGAC 240
 Db 280 CACTCACTACAGCCCTGGCACTGGCTTCAAGACCATCTGGCTGGCGAC 339

Qy 241 TCTAGTGGGGCACTTACATCCACACTGGCTTCAAGACCATCTGGCTGGCGAC 300
 Db 340 TCTAGTGGGGCACTTACATCCACACTGGCTTCAAGACCATCTGGCGAC 399

Qy 301 GGCAACACATTGGTAT 320
 Db 400 GGCAACACATTGGTAT 419

RESULT 4
 ID AAA95776 standard; cDNA; 1124 BP.

XX AAA95776;

XX 28-FEB-2001 (first entry)

XX Human immune system molecule cDNA from Incyte clone 2751129.

XX

XX Anti-inflammatory; keratolytic; anti-HIV; anti-allergic; antianaemic;
 XX antiarrheoic; antidiabetic; antiallergic; nephrotropic; cancer;
 XX antigen; dermatological; antithyroid; virucide; hepatoprotective;
 XX immunosuppressive; cytostatic; fungicide; protozoicide; antibacterial;
 XX gene therapy; diagnostic; immunological disorder; viral infection; ss;
 XX bacterial infection; fungal infection; parasitic infection; immunogen.

XX Homo sapiens.

OS WO200008080-A2.

PN 12-OCT-2000.

Qy	203	CACTCGGGTCTTACGAAGACCACTATGTTGGCAGGCCATGTTCACTGGGGCACTACATCC	262
Db	341	CACTCGGGTCTTACGAAGACCACTATGTTGGCAGGCCATGTTCACTGGGGCACTACATCC	282
Qy	263	CCACCGGACTCGGAGGCGGTTACATGTTGGCAGGCCATGTTCACTGGGGCACTACATCC	322
Db	281	CCACCGGACTCGGAGGCGGTTACATGTTGGCAGGCCATGTTCACTGGGGCACTACATCC	222
Qy	323	CTCCCTCTAATCATACATGTTGAGCTCTAGCACTGGATGTTAG	363
Db	221	CTCCCTCTAATCATACATGTTGAGCTCTAGCACTGGATGTTAG	181
RESULT 7			
	ABAS5148/c		
	ID	ABAS5148 standard; DNA; 473 BP.	
	XX	ABAS5148;	
	XX	AC	
	XX	DT	01-FEB-2002 (first entry)
	XX	DB	Human foetal liver single exon nucleic acid probe #1453.
	XX	XX	Human; foetal liver; gene expression; single exon nucleic acid probe; BB.
	XX	XX	Homo sapiens.
	OS	PN	WO200157277-A2.
	XX	PD	09-AUG-2001.
	XX	XX	30-JAN-2001; 2001WO-US000669.
	XX	PP	
	XX	PR	04-FEB-2000; 2000US-0180312P.
	PR	PR	26-MAY-2000; 2000US-0207456P.
	PR	PR	30-JUN-2000; 2000US-0060840B.
	PR	PR	03-AUG-2000; 2000US-00632366.
	PR	PR	21-SEP-2000; 2000US-0234887P.
	PR	PR	27-SEP-2000; 2000US-0236359P.
	PR	PR	04-OCT-2000; 2000GB-00024263.
	XX	PA	(MOLB-) MOLECULAR DYNAMICS INC.
	XX	P1	Penn SG, Hanzel DK, Chen W, Rank DR;
	XX	DR	WPI; 2001-483447/52.
	XX	PR	Human Genome-derived single exon nucleic acid probes useful for analyzing gene expression in human fetal liver.
	XX	PT	Claim 1; SEQ ID NO 1453; 639pp + Sequence Listing; English.
	XX	CC	The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human fetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a single exon nucleic acid probe of the invention.
	CC	CC	Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at http://wipo.int/patdb/published_pct.html .
	CC	CC	Sequence 473 BP; 131 A; 111 C; 111 G; 111 T; 0 U; 0 Other;
SQ	61.1%	Score	221.8; DB: 4; Length 473;
	Best Local Similarity	Pre. No.	7.9e-51;
	Matches 244:	Mismatches	37; Indels 0; Gaps 0;
Qy	83	TTGGAGCGGCCAGCGGACGCGACGGCCAGCGGACGCGCTGCCCCCTGCGCAGCAGG	142
Db	461	TTGGAGCGGCCAGCTCTCATTCGCCGCTGAGAGCGCTGCTGATTCCTTC	402
Qy	143	AGTTTCTGAGTGTTCCTTACATCGAGGCTTACCTAACAGCTGCTGCTCA	202

b	401	AGTTCTGAGGTGTCCTTAATCGGGGGTCACTCACTACGGCTGTCCA	342
y	203	CACTGGGTGCTAACGAGACCACTGTTGGCAGCTGGGACTACATCC	262
b	341	CACTGGGTGCTAACGAGACCACTGTTGGCAGCTGGGACTACATCC	282
y	263	CCAGGACTCCAGGGCGGTACTCACTGACGGAGGGACACACTTGGTATCT	322
b	281	CCAGGACTCCAGGGCGGTACTCACTGACGGAGGGACACACTTGGTATCT	222
y	323	CTCCCTTACATCACTTGTAGTCTCTAGAGGTGATTAG	363
b	221	CTCCCTTACATCACTTGTAGTCTCTAGAGGTGATTAG	181

Db	401	AGTTTCCTGAGTTGTCCTTAACTCGAGGGCTCACTTGACTAAGCGCTTCA 342
Qy	203	CACTGGGTCTACGAAGACCATGTTGGCCAGCACTGTCAGGGCACTACATCC 262
Db	341	CACTGGGTCTACGAAGACCATGTTGGCCAGCACTGTCAGGGCACTACATCC 282
Qy	263	CCACGGACTCGAGGCCCCGTACTTCACTCCAGGATGCCACACTTGGGATGTCT 322
Db	281	CCACGGACTCGAGGCCCCGTACTTCACTCCAGGATGCCACACTTGGGATGTCT 222
Qy	323	CCGCCCTAACATCACTACTTCACTGCTTACAGGTGATTG 363
Db	221	CCGCCCTAACATCACTACTTCACTGCTTACAGGTGATTG 181

RESULT 9
ABA42/20/C
ID ABA42720 standard; DNA; 473 BP.
XX ABA42720;
XX DT 01-FEB-2002 (first entry)
XX Human breast cell single exon nucleic acid probe #1415.
XX Human; microarray; single exon probe; gene expression; human breast cancer; ss.
XX OS Homo sapiens.
XX PN WO200157271-A2.
XX XX
XX PD 09-AUG-2001.
XX PP 30-JAN-2001; 2001WO-US000662.
XX PR 04-FEB-2000; 2000US-0180312P.
PR 26-MAY-2000; 2000US-0207456P.
PR 30-JUN-2000; 2000US-00609408.
PR 30-JUN-2000; 2000US-0062366.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0234539P.
PR 04-OCT-2000; 2000US-00024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-496933/54.
XX PT New spatially-addressable set of single exon nucleic acid probes for measuring gene expression in sample derived from human breast cancer; ss.
PT PT comprises number of single exon nucleic acid probes.
XX PS Claim 1: SEQ ID NO 1415; 327BP + Sequence Listing; English
XX
CC The invention relates to a spatially-addressable set of nucleic acid probes for measuring gene expression in a sample derived from human breast and BR 474 cells. The method involves
CC probes with a collection of detectably labelled nucleic acids from mRNA of human breast, and then measuring the label
CC probe of the microarray. The probes are useful for variety of applications. The probes are predicted to encode for
CC expression of regions of genomic DNA are useful for gene discovery, and for determining predisposition to
CC progressing breast disease. Gene expression analysis is
CC assessing the toxicity of chemical agents on cells. The method involves
CC this invention presents a far greater diversity of probe
CC gene expression, with far less bias than expressed sequence
CC microarrays. The method is suitable for rapid production
CC information from genomic sequence. The present sequence
CC nucleic acid probe of the invention. Note: The sequence
CC did not form part of the printed specification, but the sequence
CC was included in the sequence listing.

Db	401	AGTTTCTGAGTTGTCCTTAACTCGAGGGCTACTTGACTAAGCCCTGTCGA 342
Qy	203	CACTGGGTCTACGAAGACCATGTTGGCCAGCACTGTCAGGGCACTACATCC 262
Db	341	CACTGGGTCTACGAAGACCATGTTGGCCAGCACTGTCAGGGCACTACATCC 282
Qy	263	CCACGGACTCGAGGCCCCGTACTGTTACCGGAGATGGCACACCTTGGAATGCT 322
Db	281	CCACGGACTCGAGGCCCCGTACTGTTACCGGAGATGGCACACCTTGGAATGCT 222
Qy	323	CCGCCCTAACATACATACATCTGACTTCTGAGGTAG 363
Db	221	CCGCCCTAACATACATACATCTGACTTCTGAGGTAG 181

RESULT 9
ABA42/20/C
ID ABA42720 standard; DNA; 473 BP.
XX ABA42720;
XX DT 01-FEB-2002 (first entry)
XX Human breast cell single exon nucleic acid probe #1415.
XX Human; microarray; single exon probe; gene expression; human breast cancer; ss.
XX OS Homo sapiens.
XX PN WO200157271-A2.
XX PD 09-AUG-2001.
XX PP 30-JAN-2001; 2001WO-US000662.
XX PR 04-FEB-2000; 2000US-0180312P.
PR 26-MAY-2000; 2000US-0207456P.
PR 30-JUN-2000; 2000US-00609408.
PR 30-JUN-2000; 2000US-0062366.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0234539P.
PR 04-OCT-2000; 2000US-00024263.
XX PA (MOLE-) MOLECULAR DYNAMICS INC.
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX WPI; 2001-496933/54.
XX PT New spatially-addressable set of single exon nucleic acid probes for measuring gene expression in sample derived from human breast cancer; ss.
PT PT comprises number of single exon nucleic acid probes.
XX PS Claim 1: SEQ ID NO 1415; 327BP + Sequence Listing; English
XX
CC The invention relates to a spatially-addressable set of nucleic acid probes for measuring gene expression in a sample derived from human breast and BR 474 cells. The method involves
CC probes with a collection of detectably labelled nucleic acids from mRNA of human breast, and then measuring the label
CC probe of the microarray. The probes are useful for variety of applications. The probes are predicted to encode for
CC expression of regions of genomic DNA are useful for gene discovery, and for determining predisposition to
CC progressing breast disease. Gene expression analysis is
CC assessing the toxicity of chemical agents on cells. The method involves
CC this invention presents a far greater diversity of probe
CC gene expression, with far less bias than expressed sequence
CC microarrays. The method is suitable for rapid production
CC information from genomic sequence. The present sequence
CC nucleic acid probe of the invention. Note: The sequence
CC did not form part of the printed specification, but the sequence
CC was included in the sequence listing.

TITLE OF INVENTION: No. 6399761 Human Potassium Channels

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

CURRENT FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 24

LENGTH: 1542

TYPE: DNA

ORGANISM: H. sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (98) .. (799)

OTHER INFORMATION: K+HNov28, splice 4

US-09-336-643A-24

Query Match 13.3%; Score 48.4; DB 4; Length 1542;

Best Local Similarity 54.5%; Pred. No. 0.00032; Indels 0; Gaps 0;

Matches 97; Conservative 0; Mismatches 81; Splice 4

Query Match 13.3%; Score 48.4; DB 4; Length 1542;

Best Local Similarity 54.5%; Pred. No. 0.00032; Indels 0; Gaps 0;

Matches 97; Conservative 0; Mismatches 81; Splice 4

Query Match 144 GPTTCTGAGGTGTCGCCAACATCGGGGGTCACTCTACTAACGCTTCCAC 203

Db 114 GATGACTGACCGAGTCACTTAATTAATGAGTGGACACTTGATAAACGCTTCCAC 173

Query Match 204 ACTGCCGCTGTACGAGAACCATGTTGGACCCATGTTGGGGGACTATGCC 263

Db 174 ATTCAGCGTTACCCGATTCATGTTGGCTATGTTGGGACTTCCCAAGC 233

Query Match 264 CACGGACTCCGAGGGTCACTCATCGAACGAGATGGCACACTTGGATGTC 321

Db 234 TCGAGACCTGAGGAAATCTATTGAGGAGATGGACCTTTCGATGTC 291

RESULT 3

US-09-336-643A-23

Sequence 23, Application US/09336643A

Patent No. 6399761

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Rutter, Marc

APPLICANT: Wang, Jian-Wang

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

CURRENT FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 23

LENGTH: 1751

TYPE: DNA

ORGANISM: H. sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (297) .. (1008)

OTHER INFORMATION: K+HNov28 splice 3

US-09-336-643A-23

Query Match 13.3%; Score 48.4; DB 4; Length 1751;

Best Local Similarity 54.5%; Pred. No. 0.00033;

Matches 97; Conservative 0; Mismatches 81; Splice 3

RESULT 4

US-09-336-643A-21

Sequence 21, Application US/09336643A

Patent No. 6399761

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Hu, Ping

APPLICANT: Rutter, Marc

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

CURRENT FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 23

LENGTH: 1751

TYPE: DNA

ORGANISM: H. sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (297) .. (1008)

OTHER INFORMATION: K+HNov28 splice 3

Query Match 13.3%; Score 48.4; DB 4; Length 1751;

Best Local Similarity 54.5%; Pred. No. 0.00033;

Matches 97; Conservative 0; Mismatches 81; Splice 3

RESULT 5

US-09-336-643A-22

Sequence 22, Application US/09336643A

Patent No. 6399761

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Hu, Ping

APPLICANT: Rutter, Marc

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

CURRENT FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 23

LENGTH: 1751

TYPE: DNA

ORGANISM: H. sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (297) .. (1008)

OTHER INFORMATION: K+HNov28 splice 3

Query Match 13.3%; Score 48.4; DB 4; Length 1751;

Best Local Similarity 54.5%; Pred. No. 0.00033;

Matches 97; Conservative 0; Mismatches 81; Splice 3

RESULT 6

US-09-336-643A-23

Sequence 23, Application US/09336643A

Patent No. 6399761

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Hu, Ping

APPLICANT: Rutter, Marc

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

CURRENT FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 23

LENGTH: 1751

TYPE: DNA

ORGANISM: H. sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (297) .. (1008)

OTHER INFORMATION: K+HNov28 splice 3

Query Match 13.3%; Score 48.4; DB 4; Length 1751;

Best Local Similarity 54.5%; Pred. No. 0.00033;

Matches 97; Conservative 0; Mismatches 81; Splice 3

RESULT 7

US-09-336-643A-24

Sequence 24, Application US/09336643A

Patent No. 6399761

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Hu, Ping

APPLICANT: Rutter, Marc

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

CURRENT FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 24

LENGTH: 1542

TYPE: DNA

ORGANISM: H. sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (98) .. (799)

OTHER INFORMATION: K+HNov28 splice 4

Query Match 13.3%; Score 48.4; DB 4; Length 1542;

Best Local Similarity 54.5%; Pred. No. 0.00033;

Matches 97; Conservative 0; Mismatches 81; Splice 4

RESULT 8

US-09-336-643A-25

Sequence 25, Application US/09336643A

Patent No. 6399761

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Hu, Ping

APPLICANT: Rutter, Marc

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

CURRENT FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 25

LENGTH: 1542

TYPE: DNA

ORGANISM: H. sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (98) .. (799)

OTHER INFORMATION: K+HNov28 splice 4

Query Match 13.3%; Score 48.4; DB 4; Length 1542;

Best Local Similarity 54.5%; Pred. No. 0.00033;

Matches 97; Conservative 0; Mismatches 81; Splice 4

RESULT 9

US-09-336-643A-26

Sequence 26, Application US/09336643A

Patent No. 6399761

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Hu, Ping

APPLICANT: Rutter, Marc

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

CURRENT FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

GenCore version 5.1.6
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1 protein - protein search, using sw model

Run on: June 8, 2004, 10:14:29 ; Search time 79 Seconds
 (without alignments)
 479.268 Million cell updates/sec

Title: US-10-024-579-5

RefSeq: 631

Score: 1 MVVVTGREDPSRRQDGAMSS.....GTGEGTVSPSTINPVLAGD 120

Sequence:

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

DB seq length: 0

Maximum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

17 141 22.3 237 4 Q8NC69
 18 140.5 22.3 329 4 Q96SA1
 19 140.5 22.3 329 4 Q8WZ19
 20 140.5 22.3 329 11 Q7TQ24
 21 139 22.0 298 10 Q9SE95
 22 139 22.0 315 11 Q922M3
 23 139 22.0 435 4 Q9p2M9
 24 138.5 21.9 310 4 Q96SU0
 25 138.5 21.9 313 4 Q9H3P6
 26 138.5 21.9 315 11 Q7TpL3
 27 136 21.6 234 4 Q96NT3
 28 133 21.1 222 11 Q8C004
 29 132.5 21.0 329 4 Q96P93
 30 132 20.9 303 10 Q9BQ13
 31 132 20.9 303 10 Q8IM06
 32 130 20.6 333 4 Q8TN02
 33 129.5 20.5 316 11 Q7TNT1
 34 127.5 20.2 156 11 Q8CB04
 35 127.5 20.2 325 4 Q9Ck2
 36 126.5 20.0 352 4 Q86FF1
 37 125.5 19.9 316 11 Q7O479
 38 125.5 19.9 316 11 Q8BZ5
 39 125 19.8 259 11 Q8WVF5
 40 125 19.8 259 11 Q9CYK4
 41 125 19.8 259 11 Q9D7X1
 42 124 19.7 259 11 Q8CCG3
 43 122 19.3 283 4 Q96SI1
 44 121 19.2 283 11 Q8K0E1
 45 121 19.2 292 11 Q8C7J6

No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

๘๘๘

Result No.	Score	Query	Match	Length	DB	ID
1	560.5	88.8	288	4	QB1TR0	
2	560.5	88.8	289	4	Q956P8	
3	530.5	84.1	239	1	QB0C07	
4	530.5	84.1	289	11	QB8JK1	
5	164	26.0	346	11	QB4C42	
6	164	26.0	438	11	QB8CA9	
7	164	26.0	476	11	QB8C90	
8	164	26.0	476	11	QB8TR74	
9	163.5	25.9	214	6	Q9B8E8	
10	162.5	25.8	11	4	QC9CB0	
11	150.5	23.9	228	5	Q9VDB3	
12	146	23.1	228	4	QBTCA6	
13	146	23.1	237	4	Q8B8L5	
14	146	23.1	237	11	Q8B8L5	
15	143.5	22.7	329	5	QB8GT7	
16	142	22.5	301	5	Q8B8PA	

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CC EMBL: M60783; AAA83855; 1; -
 EMBL: AV065346; AML38619; 1; -
 EMBL: BC001633; AAH01633; 1; -
 EMBL: BC001949; AAH01949; 1; -
 Genew; HGNC:111894; TNAIPI1.
 DR 191161; -
 DR InterPro; IPR0002110; BTB POZ.
 DR InterPro; IPR003131; K_tetra.
 DR SMART; SM00225; BTB; 1.
 DR PROSITE; PS50097; BTB; 1.
 FT DOMAIN 28 96 BTB.
 SQ SEQUENCE 316 AA; 36204 MW; D20B81.0A005070DCP CRC64;
 Qy Query Match. 19.9%; Score 125.5; DB 1; Length 316;
 Best Local Similarity 48.4%; Pred. No. 2..2e-05;
 Matches 31; Conservative 7; Mismatches 21; Indels 5; Gaps 2;
 Qy 53 VPNNIGGAHPTRLSTLRYCDTMIAAMSGHAYIPIDSGRYFIDDDGTHFG---YVS 108
 Db 30 VQLNVGGSUYYVYVRAFLR-DTMKAMSGMVLTDKEGMLIPCGKFGTILMYR 98
 Qy 109 PSTI 112
 Db 89 DDTI 92

RESULT 2
 KCD1_HUMAN STANDARD; PRT; 647 AA.
 AC Q9NSA2; 075671;
 DT 15-MAR-2004 (Rel. 43, Created)
 DT 15-MAR-2004 (Rel. 43, Last sequence update)
 DE Potassium voltage-gated channel subfamily D member 1 (Potassium channel Kv4.1).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OC NCBI_TAXID=9606;
 RN [1] SEQUENCE FROM N.A. AND TISSUE SPICIFICITY.
 RP TISSUE=embryonic kidney;
 RX MEDLINE=20195625; PubMed=10729221;
 RA Tabrard D., Leicher T., Waldschuetz R., Zhu X.-R., Lubmann U., Michel U., Sauter K., Pongs O.;
 RA "Gene structures and expression profiles of three human KCND (Kv4) potassium channels mediating A-type currents I(TO) and I(SA)." ;
 RT Genomics 64:144-154 (2000).
 RN [2] SEQUENCE FROM N.A.
 RC TISSUE=heart;
 RA Kitabatake A.;
 RT "Homo sapiens mRNA for shal-type potassium channel KCND1 (Kv4.1)." ;
 RN Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
 RN [3] SEQUENCE FROM N.A.
 RC TISSUE=brain;
 RA Strom T.M., Nyakatura G., Hellebrand H., Drescher B., Rosenthal A., Meindl A.;
 RT "Transcription map in Xp11.23." ;
 RT Submitted (APR-1998) to the EMBL/GenBank/DDBJ databases.
 RN [4] PRINTS; PR00169; _KCHANNEL.
 DR

RP SEQUENCE FROM N.A.
 RC TISSUE=Tessis;
 RX MEDLINE=22386257; PubMed=12477932;
 RA Klausner R.D., Collins P.S., Wagner L., Shemesh C.M., Schnuler G.D., Altschul S.P., Zeeberg B., Bustow K.H., Schaeffer C.F., Bhat N.K., Jordan H., Moore T., Max S.I., Wang J., Hsieh P., Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.P., Casavant T.L., Scheetz T.E., Stoebe S., Bonaldo M.P., Carninci P., Prange C., Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Schuster G.D., Bosak S.A., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grinwood J., Schmutz J., Myers R.M., Butterfield V.S.N., Krzywinski M.I., Skalska U., Smailus D.B., Schein J.B., Jones S.J.M., Marras M.A.;
 RA "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 CC -I- FUNCTION: Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(TO) current in heart and I(SA) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with beta subunits.
 CC -I- SUBUNIT: Homotetramer with KCND2 and/or KCND3.
 CC -I- ASSOCIATES with the regulatory subunits KCNIP1, KCNIP2, KCNIP3 and KCNIP4 (BY SIMILARITY).
 CC -I- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -I- TISSUE SPECIFICITY: Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain.
 CC -I- DOMAIN: The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position.
 CC -I- SIMILARITY: Belongs to the potassium channel family. D (Shal) subfamily.
 CC -I- DOMAIN: This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch).
 CC -I- DOMAIN: MIM: 300081;
 DR EMBL: AP116003; AAPF6516.1; -
 DR EMBL: AP116005; AAPF6517.1; -
 DR EMBL: AP116004; AAPF6517.1; JOINED.
 DR EMBL: AP116005; AAPF6517.1; JOINED.
 DR EMBL: AB021865; BA93645.1; -
 DR EMBL: AJ005898; CAA06755.1; -
 DR EMBL: BCO45659; AAB45659.1; -
 DR HSSP: Q21564; 1LNQ.
 DR Gene; HGNC: 6337; KCND1.
 DR MIM: 300081;
 DR GO; GO:0005249; :Voltage-gated potassium ion transport; NAS.
 DR InterPro; IPR00210; BTB POZ.
 DR InterPro; IPR005821; Ion_trans.
 DR InterPro; IPR01622; Kv41channel.
 DR InterPro; IPR004054; Kv41channel.
 DR InterPro; IPR03958; Kv channel.
 DR InterPro; IPR03091; K_Channel.
 DR InterPro; IPR03133; K_tetra.
 DR InterPro; IPR005820; Kvchannel_nl9.
 DR InterPro; IPR033975; Shal_channel.
 DR Pfam; PF00520; ion_trans; 1.
 DR Pfam; PF02214; K_tetra; 1.
 DR PRINTS; PR00169; _KCHANNEL.

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: June 8, 2004, 10:12:49 ; Search time 39 Seconds

Minimum DB seq length: 0 (without alignments)
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt_42.4*
Scoring table: BLOSUM62
Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters:

141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

SwissProt_42.4*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	125.5		316	1	TNP1_HUMAN		Q13829 homo sapien
2	98.5		647	1	KCD1_HUMAN		Q9sa22 homo sapien
3	98.5		651	1	KCD1_MOUSE		Q37191 mus musculus
4	91		265	1	Y176_HUMAN		Q14681 homo sapien
5	88.5		602	1	CIKS_RAT		P19024 rattus norvegicus
6	85		655	1	KCD3_HUMAN		Q9zv17 homo sapien
7	85		655	1	KCD3_MOUSE		Q9zv17 mus musculus
8	85		13.5	655	KCD3_RABBIT		Q9itt5 oryctolagus cuniculus
9	85		13.5	655	KCD3_RAT		Q63897 rattus norvegicus
10	85		13.5	656	CIKS_DROME		P05510 drosophila melanogaster
11	84.5		13.4	602	CIKS_MOUSE		Q67762 mus musculus
12	83.5		13.2	613	CIKS_HUMAN		P22460 homo sapien
13	82.5		13.1	490	CIKL_DROME		P11971 drosophila melanogaster
14	82.5		13.1	499	KIR2_HUMAN		Q9zv18 homo sapien
15	81		12.8	630	KCD2_HUMAN		Q9zv18 homo sapien
16	81		12.8	630	KCD2_MOUSE		Q920y2 mus musculus
17	81		12.8	630	KCD2_RABBIT		P59995 oryctolagus cuniculus
18	81		12.8	630	KCD2_RAT		Q62881 rattus norvegicus
19	79		12.5	525	CIKS_RAT		P15384 rattus norvegicus
20	79		12.5	2517	KIR2_HUMAN		Q9y618 human nuclear receptor subfamily 1, group A, member 1
21	78.5		12.4	495	KIK1_MOUSE		P16388 mus musculus
22	78.5		12.4	495	KIK1_RAT		P10499 rattus norvegicus
23	78.5		12.4	499	KIK2_MOUSE		P15386 mus musculus
24	77.5		12.3	495	KIK1_HUMAN		Q94701 homo sapien
25	76		12.0	523	KIK3_HUMAN		P22001 homo sapien
26	74.5		11.8	499	KIK2_XENIA		P22739 xenopus laevis
27	74.5		11.8	601	KIK3_MOUSE		P79197 mus musculus
28	73		11.6	528	KIK3_MOUSE		P16390 mus musculus
29	73		11.6	529	KIK6_HUMAN		P17658 homo sapien
30	72		11.4	598	KIK5_RABBIT		P56138 oryctolagus cuniculus
31	71		11.3	653	KIK4_HUMAN		P22459 homo sapien
32	70.5		11.2	922	KIK2_HUMAN		P29916 homo sapien
33	69.5		11.0	894	KRIN6_YEAST		P32786 saccharomyces cerevisiae

34	69.5	11.0	1114	1	SUL1_DRDME		Q9yexo0 drosophila melanogaster
35	69	10.9	618	1	ORC2_DRDME		Q24168 drosophila melanogaster
36	69	10.9	806	1	DMSA_HASIN		P45004 haemophilus suis
37	68.5	10.9	360	1	PO51_BOVIN		Q9f552 bos taurus
38	68.5	10.9	654	1	CIK4_MOUSE		Q61423 mus musculus
39	68.5	10.9	812	1	AKX2_BRARE		P57095 brachydanius
40	68	10.8	613	1	TXK8_MOUSE		Q9p266 mus musculus
41	67.5	10.7	611	1	PES4_YEAST		P9684 saccharomyces cerevisiae
42	67.5	10.7	654	1	CIK4_MUSPP		Q85277 mustela putorius
43	67	10.6	360	1	PO51_PIG		Q9L5v5 sus scrofa
44	67	10.6	2472	1	NCR2_MOUSE		P17659 rattus norvegicus
45	66.5	10.5	530	1	CIK6_RAT		P17659 rattus norvegicus

ALIGNMENTS

RESULT 1							
TNPL1_HUMAN		STANDARD;		PRT;		316 AA.	
AC Q13829;		01-NOV-1997 (Rel. 35, Created)		01-NOV-1997 (Rel. 35, Last sequence update)		10-OCT-2003 (Rel. 42, Last annotation update)	
DT		DB		DE		Tumor necrosis factor, alpha-induced protein 1, endothelial (B12 protein).	
DE TNFAPI1 OR EDPL1.		GN		OS Homo sapiens (Human).		OC Bakarwata; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Bichirida; Catarrhini; Hominidae; Homo.	
OC		OC		OC		RX	
SEQUENCE FROM N.A.		RX		RA Wolf, P.W., Marks, R.M., Sarma, V., Byers, M.G., Katz, R.W., Shows, T.B., Dixit, V.M.,		RA	
TISSUE=endothelial cells;		RA		RT "Characterization of a novel tumor necrosis factor-alpha-induced endothelial primary response gene."		RA	
RA		RN 11		RN 267:1317-1326 (1992).		RN	
SEQUENCE FROM N.A.		RN		RN		RN	
RA		RN		RN		RN	
SEQUENCE FROM N.A.		RN		RN		RN	
RA		RN		RN		RN	
Rieder, M.J., Armel, T.Z., Carrington, D.P., Chung, M.-W., Lee, K.L., Poel, C.L., Roth, B.J., Yi, Q., Nickerson, D.A.,		RN		RN		RN	
RA		RN		RN		RN	
RA		RN		RN		RN	
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RA							

A;Introns: 13/1

Query Match 17.6% Score 111; DB 2; Length 190;

Best Local Similarity 41.3%; Pred. No. 0.0003; Matches 26; Conservative 10.; Indels 6; Gaps 1;

Db 51 EYVPLNIGGAHFTTRLSTLRCYEDTMLAAMPMSG----RHYIPTDSEGRYFIDRGTHP 104

Db 6 DVITLVAVGTTMTRSTLSKETDTLNLNIASGLSBDQANVVTLPDGTIVVDRDGLP 65

RESULT 5

potassium channel protein Shal - mouse
C;Species: Mus musculus (house mouse)
C;Date: 20-Mar-1992 #sequence_revision 20-Mar-1992 #text_change 05-Nov-1999

C;Accession: A39372 R;Pak, M.D.; Baker, K.; Covarrubias, M.; Butler, A.; Ratcliffe, A.; Salkoff, L. Proc. Natl. Acad. Sci. U.S.A. 88: 4386-4390, 1991

A;Title: shal, a subfamily of A-type K(+) channel cloned from mammalian brain.
C;Reference number: A39372; PMID:2034678
A;Accession: A39372 A;Status: Preliminary
A;Molecule type: mRNA
A;Residues: 1-651 <PAK>

A;Cross-references: GB: M64226; PIDN: g199812; PID: g199813

Query Match 15.6% Score 98.5; DB 2; Length 651; Best Local Similarity 33.3%; Pred. No. 0.027; Matches 28; Conservative 10.; Mismatches 29; Indels 17; Gaps 3;

Db 42 LPLIPLQEPFP-----EYVPLNIGGAHFTTRLSTLRCYEDTMLAAMPMSGHYIPTD 90

Db 20 LPLAQPLPPLPAPKVASRQDDEVLVNNSGRRFETWWNTLDRYPTLGS--SERKPFYDA 77

Qy 91 SEGRYFIDRGTHFGRYVSPSTINP 114

Db 78 ESGYVFPFDRDIDMFRHV---LNP 97

RESULT 6

T23B12.6 - Caenorhabditis elegans

C;Species: Caenorhabditis elegans
C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 29-Oct-1999

C;Accession: T32221 R;Davidson, S.; Wohldmann, P.; Gilliam, B. submitted to the EMBL Data Library, September 1997

A;Description: The sequence of C. elegans cosmid T23B12.

A;Reference number: Z19262
A;Accession: T32221 A;Status: Preliminary; translated from GB/EMBL/DBJA;Molecule type: DNA
A;Residues: 1-220 <NTL>

A;Cross-references: EMBL:Z35639; PIDN:CAA84696.1; GSPDB:GN00021; CESP:D2045.8

A;Experimental source: clone D2045
A;Genetics: A;Gene: CESP:D2045.8A;Map Position: 3 A;Map: Position: 3
A;Introns: 3/9/3; 127/3; 169/1; 194/3

Query Match 16.8% Score 106; DB 2; Length 220;

Best Local Similarity 31.8%; Pred. No. 0.0012; Matches 28; Conservative 12.; Mismatches 24; Indels 24; Gaps 3;

Db 28 LEPATPTAQGHALPQLPQEFPEVPLNIGGAHFTTRLSTLRCYEDTMLAAMPMSGHYI 87

Db 1 MEPSI-----IYKLDYQGKIPATIPTFL-CRHDSSMLKTMPCCTDVFV 40

Qy 88 FTDSEGRYFIDRGTHFGRYVSPSTINP 115

Db 41 TKEEGSVFIDRSKHFPLI---LNFL 64

RESULT 4

T26685 Caenorhabditis elegans

C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999

C;Accession: T26685 R;Hallis, J. submitted to the EMBL Data Library, October 1998

A;Accession number: Z2253 A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA
A;Residues: 1-373 <NTL>

A;Cross-references: EMBL:AL032639; PIDN:CAA21638.1; GSPDB:F18A11.5

A;Experimental source: clone Y38PLA
A;Genetics: A;Gene: CESP:F18A11.5

A;Map position: 2 A;Map: Position: 7/3; 44/3; 99/3; 152/2; 198/3; 223/1

Query Match 16.4% Score 103.5; DB 2; Length 373;

Best Local Similarity 42.3%; Pred. No. 0.0041; Matches 30; Conservative 6.; Mismatches 20; Indels 15; Gaps 3;

Db 51 EYVPLNIGGAHFTTRLSTLRCYEDTMLAAMPMSGHYIPTDSEGRYFIDRGTHPG---- 105

RESULT 7

S00480 Caenorhabditis elegans

C;Species: Drosophila melanogaster
C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 17-Nov-2000

C;Accession: S00480; S0111

US-10-056-884-5

Query Match 23.9%; Score 150.5; DB 14; Length 228;
Best Local Similarity 49.2%; Pred. No. 7.6e-09;
Matches 29; Conservative 12; Mismatches 17; Indels 1; Gaps 1;

Qy 50 PVEVPLNIGGAHPTRLSTLRCYEDTMLAAMP-SGRHYIFTDSGRYFIDRDGTHFGYV 107
Db 2 PEIIELVNGGSVTTTLLAQDKSTLLAELFGEORDSLAKDSKGCRYFLRDGTVLFRYI 60

RESULT 9
US-10-080-980-3 Application US/10080980
; Publication No. US20030036115A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBUNIT
; FILE REFERENCE: D0121.NP
; CURRENT APPLICATION NUMBER: US/10/080,980
; CURRENT FILING DATE: 2002-02-21
; PRIORITY FILING DATE: 2001-02-21
; PRIORITY APPLICATION NUMBER: US 60/270,132
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 3
; TYPE: PCT
; ORGANISM: Drosophila melanogaster
US-10-080-980-3

Query Match 23.9%; Score 150.5; DB 14; Length 228;
Best Local Similarity 49.2%; Pred. No. 7.6e-09;
Matches 29; Conservative 12; Mismatches 17; Indels 1; Gaps 1;

Qy 50 PVEVPLNIGGAHPTRLSTLRCYEDTMLAAMP-SGRHYIFTDSGRYFIDRDGTHFGYV 107
Db 2 PEIIELVNGGSVTTTLLAQDKSTLLAELFGEORDSLAKDSKGCRYFLRDGTVLFRYI 60

RESULT 10
US-10-086-156-2 Application US/10086156
; Publication No. US20030054989A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBUNIT
; FILE REFERENCE: D0115NP
; CURRENT APPLICATION NUMBER: US/10/086,156
; CURRENT FILING DATE: 2002-02-28
; PRIORITY FILING DATE: 2001-02-28
; PRIORITY APPLICATION NUMBER: US 60/272,190
; PRIORITY FILING DATE: 2001-02-28
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 12
; LENGTH: 99
; TYPE: PCT
; ORGANISM: homo sapiens
US-10-086-156-2

Query Match 23.1%; Score 146; DB 14; Length 99;
Best Local Similarity 47.6%; Pred. No. 8.3e-09;
Matches 30; Conservative 11; Mismatches 18; Indels 4; Gaps 1;

Qy 53 VPLNIGGAHPTRLSTLRCYEDTMLAAMP-SGRHYIFTDSGRYFIDRDGTHFGYV 112
Db 3 ITLNVGKLYTTSFLTSPDSLQAMFSGRYPTRDQSNCPIFRDGKFRYI---L 58

RESULT 11
US-10-296-115-1392 Application US/10296115
; Publication No. US20040053248A1
; GENERAL INFORMATION:
; APPLICANT: Hysed Inc
; TITLE OF INVENTION: US 20040053248A1 Nucleic Acids and Polypeptides
; FILE REFERENCE: 784PCT
; CURRENT APPLICATION NUMBER: US/10/296,115
; CURRENT FILING DATE: 2002-11-18
; PRIORITY FILING DATE: 2000-01-21
; PRIORITY APPLICATION NUMBER: US09/488,725
; PRIORITY FILING DATE: 2000-04-25
; SEQ ID NO 1192
; LENGTH: 282
; TYPE: PCT
; ORGANISM: Homo sapiens
US-10-296-115-1392

Query Match 23.3%; Score 147; DB 12; Length 282;
Best Local Similarity 38.6%; Pred. No. 2.5e-08;
Matches 34; Conservative 14; Mismatches 24; Indels 16; Gaps 2;

Qy 28 LPATTTATGAGHPTLPPQFPEVPLNIGGAHPTRLSTLRCYEDTMLAAMP-SGRHYI 87
Db 15 LLPAQSPMS-----DPTLNVGKLYTTSFLTSPDSLQAMFSGRYPTRDQSNCPIFRDGKFRYI---L 58

RESULT 12
US-10-086-156-12 Application US/10086156
; Publication No. US20030054989A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBUNIT
; FILE REFERENCE: D0115NP
; CURRENT APPLICATION NUMBER: US/10/086,156
; CURRENT FILING DATE: 2002-02-28
; PRIORITY FILING DATE: 2001-02-28
; PRIORITY APPLICATION NUMBER: US 60/274,258
; PRIORITY FILING DATE: 2001-03-07
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 12
; LENGTH: 99
; TYPE: PCT
; ORGANISM: homo sapiens
US-10-086-156-12

Query Match 23.1%; Score 146; DB 14; Length 99;
Best Local Similarity 47.6%; Pred. No. 8.3e-09;
Matches 30; Conservative 11; Mismatches 18; Indels 4; Gaps 1;

Qy 53 VPLNIGGAHPTRLSTLRCYEDTMLAAMP-SGRHYIFTDSGRYFIDRDGTHFGYV 112
Db 3 ITLNVGKLYTTSFLTSPDSLQAMFSGRYPTRDQSNCPIFRDGKFRYI---L 58

RESULT 13
US-113 NFV 115

Query Match 23.6%; Score 149; DB 14; Length 351;
Best Local Similarity 34.2%; Pred. No. 2e-08;
Matches 40; Conservative 17; Mismatches 40; Indels 20; Gaps 3;

Qy 3 VTCGRPDSRQDGAMSSSSDAB---DDFEPATPTAQGAGHPTLPPQFPEVPLNIG 58
Db 3 ITLNVGKLYTTSFLTSPDSLQAMFSGRYPTRDQSNCPIFRDGKFRYI---L 58

PRIOR APPLICATION NUMBER: US 60/236,359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/006666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006668
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006669
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006665
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006662
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006661
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/006700
 PRIOR FILING DATE: 2001-01-30
 PRIOR FILING DATE: 2000-09-21
 PRIOR FILING NUMBER: US 60/234,687
 PRIOR FILING DATE: 2000-06-30
 PRIOR FILING NUMBER: US 09/608,408
 PRIOR FILING DATE: 2001-01-29
 PRIOR FILING NUMBER: US 09/774,203
 SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
 SEQ ID NO 34673
 LENGTH: 56
 FEATURE:
 OTHER INFORMATION: MAP TO AC006001.2
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.6
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 12
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 5.4
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.8
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 7.3
 OTHER INFORMATION: EXPRESSED IN B174, SIGNAL = 14
 OTHER INFORMATION: EXPRESSED IN HB100, SIGNAL = 8.5
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 OTHER INFORMATION: EXPRESSED IN KIDNEY, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN SWISSPROT HIT: Q13829, EVALUAB 9.00e-07
 US-09-864-761-34673

PRIOR FILING DATE: 2001-01-30
 PRIOR FILING NUMBER: PCT/US01/006661
 PRIOR FILING DATE: 2001-01-30
 PRIOR FILING NUMBER: PCT/US01/006663
 PRIOR FILING DATE: 2001-01-30
 PRIOR FILING NUMBER: PCT/US01/006662
 PRIOR FILING DATE: 2001-01-30
 PRIOR FILING NUMBER: PCT/US01/006661
 PRIOR FILING DATE: 2001-01-30
 PRIOR FILING NUMBER: US 60/234,687
 PRIOR FILING DATE: 2000-09-21
 PRIOR FILING NUMBER: US 09/608,408
 PRIOR FILING DATE: 2000-06-30
 PRIOR FILING NUMBER: US 09/774,203
 NUMBER: SEQ ID NO: 491117
 SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
 SEQ ID NO 34673
 LENGTH: 56
 TYPE: PRT
 ORGANISM: Homo sapiens

FEATURE:

OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.6
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 12
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 5.4
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.8
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 7.3
 OTHER INFORMATION: EXPRESSED IN B174, SIGNAL = 14
 OTHER INFORMATION: EXPRESSED IN HB100, SIGNAL = 8.5
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 OTHER INFORMATION: EXPRESSED IN KIDNEY, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN SWISSPROT HIT: Q13829, EVALUAB 9.00e-07
 US-09-864-761-34673

Query Match 48.3%; Score 305; DB 9; Length 56;
 Best Local Similarity 100.0%; Pred. No. 2.4e-27;
 Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 49 FPEVYPLNIGGAHFTTRSLTCSRDTMAMFSGRHYIPTDSGRYPTIDRGTHP 104
 Db 1 FPEVYPLNIGGAHFTTRSLTCSRDTMAMFSGRHYIPTDSGRYPTIDRGTHP 56

RESULT 6

US-10-086-156-39

Sequence 39, Application US/10086156

Publication No. US20030054389A1

GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company

TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SUB

TITLE OF INVENTION: K-betaM4 and K-betaM5

FILE REFERENCE: D011SNP

CURRENT FILING DATE: 2002-02-28

PRIOR FILING NUMBER: US 60/272,190

PRIOR FILING DATE: 2001-02-28

PRIOR APPLICATION NUMBER: US 60/274,258

CURRENT FILING DATE: 2002-02-28

PRIOR FILING NUMBER: US 60/269,794

PRIOR FILING DATE: 2001-02-14

NUMBER OF SEQ ID NO: 73

SOFTWARE: PatentIn version 3.0

SEQ ID NO 5

LENGTH: 228

TYPE: PRT

ORGANISM: Drosophila melanogaster

Query Match 47.9%; Score 302.5; DB 14; Length 96;
 Best Local Similarity 85.7%; Pred. No. 9.3e-27;
 Matches 60; Conservative 3; Mismatches 2; Indels 5; Gaps 2;Query 51 EKVPLNIGGAHFTTRSLTCSRDTMAMFSGRHYIPTDSGRYPTIDRGTHF 110
 Db 1 EKVPLNIGGAHFTTRSLTCSRDTMAMFSGRHYIPTDSGRYPTIDRGTHF 57Query 111 TINFVFLAGD 120
 Db 58 -LNP-LRSGD 65RESULT 7
 US-10-236-115-757

Sequence 757, Application US/10296115

GENERAL INFORMATION:

APPLICANT: Hyseq Inc

TITLE OF INVENTION: No. US20040051248A1

Nucleic Acids and Polypeptides

FILE REFERENCE: 784PCT

CURRENT APPLICATION NUMBER: US/10/296,115

CURRENT FILING DATE: 2002-11-18

PRIOR APPLICATION NUMBER: US09/488,725

PRIOR FILING DATE: 2000-01-21

PRIOR APPLICATION NUMBER: US09/552,317

PRIOR FILING DATE: 2000-04-25

NUMBER OF SEQ ID NO: 1478

SEQ ID NO 757

LENGTH: 130

TYPE: PRT

ORGANISM: Homo sapiens

US-10-236-115-757

Query Match 34.9%; Score 220.5; DB 12; Length 130;

Best Local Similarity 78.3%; Pred. No. 3.5e-17;

Matches 47; Conservative 1; Mismatches 11; Indels 1; Gaps 1;

GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company

TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBU

TITLE OF INVENTION: K-betaM2

FILE REFERENCE: D0075_NP

CURRENT APPLICATION NUMBER: US/10/056,884

PRIOR APPLICATION NUMBER: US 60/263,872

PRIOR FILING DATE: 2001-01-24

PRIOR APPLICATION NUMBER: US 60/269,794

PRIOR FILING DATE: 2001-02-14

NUMBER OF SEQ ID NO: 73

SOFTWARE: PatentIn version 3.0

SEQ ID NO 5

LENGTH: 228

TYPE: PRT

ORGANISM: Drosophila melanogaster

Query Match 1

MVVYTGREDSDRQDGAMSSDAEDDFEPATPATQGHALPLPQESPEVYPLNIGG 59

US-10-056-884-5

Sequence 5, Application US/10056884

Publication No. US20030032786A1

GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company

TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBU

TITLE OF INVENTION: K-betaM2

FILE REFERENCE: D0075_NP

CURRENT FILING DATE: 2002-01-24

PRIOR APPLICATION NUMBER: US 60/263,872

PRIOR FILING DATE: 2001-01-24

PRIOR APPLICATION NUMBER: US 60/269,794

PRIOR FILING DATE: 2001-02-14

NUMBER OF SEQ ID NO: 73

SOFTWARE: PatentIn version 3.0

SEQ ID NO 5

LENGTH: 228

TYPE: PRT

ORGANISM: Drosophila melanogaster

US-10-094-749-2664
Sequence 2684, Application US/10094749
Publication No. US20030219741A1

GENERAL INFORMATION:

APPLICANT: ISOGAI, TAKAO

APPLICANT: SUGIYAMA, TOMOYASU

APPLICANT: OTSUKI, TETSUJI

APPLICANT: WAKAMATSU, AI

APPLICANT: SATO, HIROYUKI

APPLICANT: ISHII, SHIZUKO

APPLICANT: YAMAMOTO, JUN-ICHI

APPLICANT: ISONO, YUTUO

APPLICANT: HIO, YURI

APPLICANT: OTSUKI, YASUO

APPLICANT: NAGAI, KEIICHI

APPLICANT: IRIE, RYOTARO

APPLICANT: TAMECHIKI, ICHIRO

APPLICANT: SEKI, NACHIKO

APPLICANT: YOSHIKAWA, TSUTOMU

APPLICANT: OTSUKA, MOTONUKI

APPLICANT: NAGAHARI, KENJI

APPLICANT: MASUHOU, YASUHIKO

APPLICANT: YOSHIOKA, TSUTOMU

APPLICANT: TATEKAWA, TSUTOMU

Query Match 88.8%; Score 560.5; DB 14; Length 343;
Best Local Similarity 91.7%; Pred. No. 1.4e-55; Indels 5; Gaps 2;
Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

Qy 1 MVVVTGREPDSRQDGAMSSDAEDDFLEPATPTATQGHALPLPQPBPVPLNIGGA 60
Db 1 MVVVTGREPDSRQDGAMSSDAEDDFLEPATPTATQGHALPLPQPBPVPLNIGGA 60

Qy 61 HPTTRLSTRLCYEDTMIAAMFSGRYIPTDSEGRYFIDRGTHFGYVSPSTINFVVLAGD 120
Db 61 HPTTRLSTRLCYEDTMIAAMFSGRYIPTDSEGRYFIDRGTHFGYVSPSTINFVVLAGD 120

Qy 108 SPSTINFVVLAGD 120
Db 94 SPSTINFVVLAGD 106

RESULT 3
US-10-086-156-24
Sequence 24, Application US/10086156
Publication No. US20030054989A1

GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company

TITLE OF INVENTION: Potassium Channel Beta-SU

FILE REFERENCE: D0115NP

CURRENT FILING DATE: 2002-02-28

PRIOR APPLICATION NUMBER: US 60/272,190

PRIOR FILING DATE: 2001-02-28

PRIOR APPLICATION NUMBER: US 60/274,258

PRIOR FILING DATE: 2001-03-07

NUMBER OF SEQ ID NOS: 98

SOFTWARE: PatentIn Version 3.0

SEQ ID NO: 24
LENGTH: 343
TYPE: PRT
ORGANISM: homo sapiens

US-10-086-156-24

Query Match 88.8%; Score 560.5; DB 14; Length 343;
Best Local Similarity 91.7%; Pred. No. 1.4e-55; Indels 5; Gaps 2;

Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

APPLICANT: ISOGAI, TAKAO

APPLICANT: SUGIYAMA, TOMOYASU

APPLICANT: OTSUKI, TETSUJI

APPLICANT: WAKAMATSU, AI

APPLICANT: SATO, HIROYUKI

APPLICANT: ISHII, SHIZUKO

APPLICANT: YAMAMOTO, JUN-ICHI

APPLICANT: ISONO, YUTUO

APPLICANT: HIO, YURI

APPLICANT: OTSUKI, YASUO

APPLICANT: NAGAI, KEIICHI

APPLICANT: IRIE, RYOTARO

APPLICANT: TAMECHIKI, ICHIRO

APPLICANT: SEKI, NACHIKO

APPLICANT: YOSHIKAWA, TSUTOMU

APPLICANT: OTSUKI, MOTONUKI

APPLICANT: NAGAHARI, KENJI

APPLICANT: MASUHOU, YASUHIKO

APPLICANT: YOSHIOKA, TSUTOMU

APPLICANT: TATEKAWA, TSUTOMU

Query Match 88.8%; Score 560.5; DB 15; Length 289;
Best Local Similarity 91.7%; Pred. No. 1.1e-55; Indels 5; Gaps 2;

Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

APPLICANT: ISOGAI, TAKAO

APPLICANT: SUGIYAMA, TOMOYASU

APPLICANT: OTSUKI, TETSUJI

APPLICANT: WAKAMATSU, AI

APPLICANT: SATO, HIROYUKI

APPLICANT: ISHII, SHIZUKO

APPLICANT: YAMAMOTO, JUN-ICHI

APPLICANT: ISONO, YUTUO

APPLICANT: HIO, YURI

APPLICANT: OTSUKI, YASUO

APPLICANT: NAGAI, KEIICHI

APPLICANT: IRIE, RYOTARO

APPLICANT: TAMECHIKI, ICHIRO

APPLICANT: SEKI, NACHIKO

APPLICANT: YOSHIKAWA, TSUTOMU

APPLICANT: OTSUKI, MOTONUKI

APPLICANT: NAGAHARI, KENJI

APPLICANT: MASUHOU, YASUHIKO

APPLICANT: YOSHIOKA, TSUTOMU

APPLICANT: TATEKAWA, TSUTOMU

Query Match 88.8%; Score 560.5; DB 15; Length 343;

Best Local Similarity 91.7%; Pred. No. 1.4e-55; Indels 5; Gaps 2;

Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

APPLICANT: ISOGAI, TAKAO

APPLICANT: SUGIYAMA, TOMOYASU

APPLICANT: OTSUKI, TETSUJI

APPLICANT: WAKAMATSU, AI

APPLICANT: SATO, HIROYUKI

APPLICANT: ISHII, SHIZUKO

APPLICANT: YAMAMOTO, JUN-ICHI

APPLICANT: ISONO, YUTUO

APPLICANT: HIO, YURI

APPLICANT: OTSUKI, YASUO

APPLICANT: NAGAI, KEIICHI

APPLICANT: IRIE, RYOTARO

APPLICANT: TAMECHIKI, ICHIRO

APPLICANT: SEKI, NACHIKO

APPLICANT: YOSHIKAWA, TSUTOMU

APPLICANT: OTSUKI, MOTONUKI

APPLICANT: NAGAHARI, KENJI

APPLICANT: MASUHOU, YASUHIKO

APPLICANT: YOSHIOKA, TSUTOMU

APPLICANT: TATEKAWA, TSUTOMU

Sequence 9, Appli
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SEARCH

SEARCH run on: June 8, 2004, 10:50:19 ; Search time 959 Seconds
(without alignments)
35.204 Million cell updates/sec

title: US-10-024-579-5
perfect score: 631
Sequence: 1 MYVVTGREPDSRQDGAMSS.....GTHGTVSPSPSTINVVLAGD 120

scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

searched: 1155919 seqs, 281328677 residues
Total number of hits satisfying chosen parameters: 1155919

minimum DB seq length: 0
maximum DB seq length: 20000000000

post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

database : Published Applications AA:
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7: /cgn2_6/prodata/2/pubpaas/US02_PUBCOMB.pep:
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1: /cgn2_6/prodata/2/pubpaas/US07_PUBCOMB.pep:
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4: /cgn2_6/prodata/2/pubpaas/US05_PUBCOMB.pep:
5: /cgn2_6/prodata/2/pubpaas/US04_PUBCOMB.pep:
6: /cgn2_6/prodata/2/pubpaas/US03_PUBCOMB.pep:
7: /cgn2_6/prodata/2/pubpaas/US02_PUBCOMB.pep:
8: /cgn2_6/prodata/2/pubpaas/US01_PUBCOMB.pep:
9: /cgn2_6/prodata/2/pubpaas/US09_PUBCOMB.pep:
10: /cgn2_6/prodata/2/pubpaas/US08_PUBCOMB.pep:
11: /cgn2_6/prodata/2/pubpaas/US07_PUBCOMB.pep:
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18: /cgn2_6/prodata/2/pubpaas/US00_PUBCOMB.pep:
RESULT 1
US-024-579-5
/ Sequence 1, Application US/10024579
/ Publication No. US/0020119522A1
/ GENERAL INFORMATION:
/ APPLICANT: Friddle, Carl, Johan
/ APPLICANT: Gehrdt, Brenda
/ APPLICANT: Hilbun, Brian
/ APPLICANT: Turner, C. Alexander Jr.
/ TITLE OF INVENTION: No US20020119522A1el Human Ion Channel-Related Proteins and Polynucleotides Encoding the Same
/ TITLE OF INVENTION: and Polynucleotides Encoding the Same
/ FILE REFERENCE: LEX-0274-USA
/ CURRENT APPLICATION NUMBER: US/10/024,579
/ CURRENT FILING DATE: 2001-12-18
/ PRIOR APPLICATION NUMBER: US 60/258,595
/ PRIOR FILING DATE: 2000-12-28
/ NUMBER OF SEQ ID NOS: 17
/ SOFTWARE: FastSEQ for Windows Version 4.0
/ SEQ ID NO 5
/ LENGTH: 120
/ TYPE: PRT
/ ORGANISM: homo sapiens
US-10-024-579-5

SUMMARIES

8 result
No. Score Query Match Length DB ID Description

1 631 100.0 120 13 US-10-024-579-5 Sequence 5, Appli
2 560.5 88.8 289 15 US-10-094-749-684 Sequence 268, Appli
3 560.5 88.8 343 14 US-10-086-156-24 Sequence 24, Appli
4 385 61.0 106 13 US-10-024-579-7 Sequence 7, Appli
5 3035 48.3 56 9 US-09-864-71-346773 Sequence 34677, Appli
6 302.5 47.9 96 14 US-10-086-156-39 Sequence 39, Appli
7 220.5 34.9 130 12 US-10-096-115-57 Sequence 75, Appli
8 150.5 23.9 228 14 US-10-056-884-5 Sequence 5, Appli
9 150.5 23.9 228 14 US-10-080-980-3 Sequence 3, Appli
10 149 23.6 351 14 US-10-086-156-2 Sequence 2, Appli
11 147 23.3 282 12 US-10-296-115-1392 Sequence 139, Appli
12 146 23.1 99 14 US-10-086-156-12 Sequence 12, Appli
13 146 23.1 237 14 US-10-040-805-3 Sequence 3, Appli
14 146 23.1 237 14 US-10-056-884-4 Sequence 4, Appli
15 146 23.1 237 14 US-10-080-980-7 Sequence 7, Appli

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

FILE REFERENCE: GENSET_054PR2
 CURRENT APPLICATION NUMBER: US/09/621,976
 CURRENT FILING DATE: 2000-07-21
 NUMBER OF SEQ ID NOS: 19335
 SOFTWARE: Patent.prt
 SEQ ID NO: 5196
 LENGTH: 93
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-621-976-5196

Query Match 21.9%; Score 138.5; DB 4; Length 93;
 Best Local Similarity 56.4%; Pred. No. 1.7e-09;
 Matches 31; Conservative 6; Mismatches 17; Indels 1; Gaps 1;
 Qy 53 VPLNIGGAAFTTRLSTLRTYEDTMLAAMSQRHYPIDTSGRHYPTDGRGTYV 107
 Db 34 VKLNVGGALIYXYTTMQL-TKQDTMLKAMFSGRMELVLTSGMTLDRGKRGHTI 87

RESULT 3
 US-09-336-643A-12
 ; Sequence 12, Application US/09336643A

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Hu, Ping

APPLICANT: Rutter, Marc

APPLICANT: Wang, Jian

TITLE OF INVENTION: No. 6399761 Human Potassium Channels

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

PRIOR FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 12

LENGTH: 258

TYPE: PRT

ORGANISM: H. sapiens

US-09-336-643A-12

Query Match 19.8%; Score 125; DB 4; Length 258;
 Best Local Similarity 40.6%; Pred. No. 2.3e-07;
 Matches 26; Conservative 13; Mismatches 21; Indels 4; Gaps 1;
 Qy 52 VPLNIGGAAFTTRLSTLRTYEDTMLAAMSQRHYPIDTSGRHYPTDGRGTYV 111
 Db 34 LMTLNVGGALIYXYTTMQL-TKQDTMLKAMFSGRMELVLTSGMTLDRGKRGHTI 89

Query Match 11.2 INFV 115

Db 90 INPL 93

RESULT 4
 US-09-673-396A-155

Sequence 155, Application US/09673395A

GENERAL INFORMATION:

APPLICANT: SPECHT, THOMAS

APPLICANT: HINZMANN, BERND

APPLICANT: SCHMITT, ARMIN

APPLICANT: PILARSKI, CHRISTIAN

APPLICANT: DAHL, EGMAR

APPLICANT: ROSENTHAL, ANDRE

TITLE OF INVENTION: HUMAN NUCLEAR ACID SEQUENCES FROM UTERUS TUMOR TISSUE

FILE REFERENCE: ALBRE-12
 CURRENT APPLICATION NUMBER: US/09/671,395A
 CURRENT FILING DATE: 2000-10-17
 NUMBER OF SEQ ID NOS: 637
 SOFTWARE: Patent Ver. 2.1
 SEQ ID NO: 155
 LENGTH: 289
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-673-395A-155

Query Match 18.5%; Score 118.5; DB 4; Length 289;
 Best Local Similarity 36.7%; Pred. No. 1.7e-06;
 Matches 33; Conservative 12; Mismatches 38; Indels 7; Gaps 3;

Qy 29 EPATPA-TQAGHALPLPQEPF-PVVPNIGGAAFTTRLSTLRTYEDTMLAAMSQRH 85
 Db 2 QPARPGMMAATAACGVPSPGPPGIVLNUVGKRFSTSQTLMIPDSFSSLGRI 61

Qy 86 YPTDSEGRYFIDRGTGPGVYSPSTINPV 115
 Db 62 STLKDETGAFTIDRGTyFAPI---INPL 87

RESULT 5
 US-09-336-643A-14

Sequence 14, Application US/09336643A

GENERAL INFORMATION:

APPLICANT: Miller, Andrew P.

APPLICANT: Curran, Mark Edward

APPLICANT: Hu, Ping

APPLICANT: Rutter, Marc

APPLICANT: Wang, Jian

TITLE OF INVENTION: No. 6399761 Human Potassium Channel 1.6

FILE REFERENCE: SEQ-15P

CURRENT APPLICATION NUMBER: US/09/336,643A

PRIOR FILING DATE: 1999-06-18

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR FILING DATE: 1999-01-19

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

NUMBER OF SEQ ID NOS: 87

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 14

LENGTH: 256

TYPE: PRT

ORGANISM: H. sapiens

FEATURES:

NAME/KEY: VARIANT

LOCATION: (1) : (256)

OTHER INFORMATION: Xaa = Any Amino Acid

US-09-336-643A-14

Query Match 18.1%; Score 114; DB 4; Length 256;

Best Local Similarity 34.5%; Pred. No. 5.3e-06;

Matches 30; Conservative 16; Mismatches 35; Indels 6; Gaps 3;

Qy 30 PATPATQAGHALPLPQEPF-PVVPNIGGAAFTTRLSTLRTYEDTMLAAMSQRH 89
 Db 10 PASPLKNO-GIPTPAQTKNSAPVHIDVGGMYTSLSATLTKYPERIGRLFDGTEPIVL 68

Qy 90 DS-EGRYFIDRGTGPGVYSPSTINPV 115
 Db 69 DSUQHNFIDRQDMFRYI---INPL 91

RESULT 6
 US-09-166-350-12

Sequence 12, Application US/09166350A

GENERAL INFORMATION:

APPLICANT: SPECHT, THOMAS

APPLICANT: HINZMANN, BERND

APPLICANT: SCHMITT, ARMIN

APPLICANT: PILARSKI, CHRISTIAN

APPLICANT: DAHL, EGMAR

APPLICANT: ROSENTHAL, ANDRE

TITLE OF INVENTION: HUMAN NUCLEAR ACID SEQUENCES FROM UTERUS TUMOR TISSUE

FILE REFERENCE: ALBRE-12

CURRENT APPLICATION NUMBER: US/09/671,395A

CURRENT FILING DATE: 2000-10-17

NUMBER OF SEQ ID NOS: 637

SOFTWARE: Patent Ver. 2.1

SEQ ID NO: 155

LENGTH: 289

TYPE: PRT

ORGANISM: Homo sapiens

GenCore version 5.1.6
(c) 1993 - 2004 Compugen Ltd.

On protein - protein search, using SW model
Run on: June 8, 2004, 10:48:29 ; Search time 44 Seconds
(without alignments)
140.798 Million cell updates/sec

Title: US-10-024-579-5

Perfect score: 631
Sequence: 1 MYYVITGREPDSSRQDGAMSS GTHF3TVSPSTINPVLAGD 120

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 5162571 residues

Total number of hits satisfying chosen parameters:

389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

Database : Issued_Patents_Alt:
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2: /cgnd2_6/prodata/2/1aa/5B.COMB.pep:
3: /cgnd2_6/prodata/2/1aa/6A.COMB.pep:
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6: /cgnd2_6/prodata/2/1aa/backfile1.pep:
* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	146	23.1	237	4 US-09-336-543A-25	Sequence 25, Appl
2	138.5	21.9	93	4 US-09-621-976-5196	Sequence 5196, Appl
3	125	19.8	258	4 US-09-336-643A-12	Sequence 12, Appl
4	118.5	18.8	289	4 US-09-673-995A-155	Sequence 155, Appl
5	114	18.1	256	4 US-09-336-643A-14	Sequence 14, Appl
6	107	17.0	812	4 US-09-166-350-12	Sequence 12, Appl
7	90	14.3	162	4 US-08-606-143-44	Sequence 44, Appl
8	88.5	14.0	389	4 US-09-336-643A-27	Sequence 27, Appl
9	85.5	13.5	646	4 US-09-336-643A-17	Sequence 10, Appl
10	85	13.5	616	4 US-09-275-552A-4	Sequence 4, Appl
11	85	13.5	636	4 US-09-142-791A-2	Sequence 2, Appl
12	85	13.5	636	4 US-09-142-791A-6	Sequence 6, Appl
13	85	13.5	636	4 US-09-178-109-4	Sequence 4, Appl
14	85	13.5	655	4 US-09-142-791A-4	Sequence 4, Appl
15	85	13.5	655	4 US-09-178-109-2	Sequence 2, Appl
16	84.5	13.4	111	4 US-10-162-012-11	Sequence 11, Appl
17	81.5	12.9	152	2 US-08-606-143-4	Sequence 4, Appl
18	81	12.8	159	2 US-08-606-143-45	Sequence 45, Appl
19	79	12.5	1495	4 US-09-337-884-1	Sequence 1, Appl
20	79	12.5	495	4 US-09-275-552A-5	Sequence 5, Appl
21	77.5	12.3	152	4 US-08-006-143-13	Sequence 13, Appl
22	76	12.0	446	4 US-10-162-012-8	Sequence 8, Appl
23	74.5	11.8	528	2 US-08-527-552-2	Sequence 2, Appl
24	73	11.6	150	2 US-08-606-143-29	Sequence 29, Appl
25	71	11.3	861	4 US-09-184-116-2	Sequence 2, Appl
26	70.5	11.2	922	2 US-08-664-102-2	Sequence 2, Appl

RESULT 1

US-09-336-643A-25

; Sequence 25, Application US/09336643A
; Patent No. 6399161

; GENERAL INFORMATION:

; APPLICANT: Miller, Andrew P.

; APPLICANT: Curran, Mark Edward

; APPLICANT: Hu, Ping

; APPLICANT: Rutter, Marc

; APPLICANT: Wang, Jian Wang

; TITLE OF INVENTION: No. 6399761el Human Potassium Channel

; FILE REFERENCE: SEQ 15P

; CURRENT FILING DATE: 1999-06-18

; PRIOR APPLICATION NUMBER: 60/076,687

; PRIOR FILING DATE: 1998-08-07

; PRIOR APPLICATION NUMBER: 60/116,448

; PRIOR FILING DATE: 1999-01-19

; PRIOR APPLICATION NUMBER: PCT/US99/03826

; NUMBER OF SEQ ID NO: 87

; SOFTWARE: PastSeq for Windows Version 4.0

; SEQ ID NO: 25

; LENGTH: 237

; TYPE: PRT

; ORGANISM: H. sapiens

US-09-336-643A-25
Query Match 23.1%; Score 146; DB 4;
Best Local Similarity 50.8%; Pred. No. 5.1e-10;
Matches 32; Conservative 7; Mismatches 20; Indels 4; Gaps 1;
Qy 53 VPNTIGAFTTRIYLRYEDTNLAAAMESGRHVIPTSEGRFIDRQTHGIVSPSTI 112
Db 14 VTVANGHLYTTSITLTRYPSDKMIGAMEGGDPFTARDPQENTFDRDSPFLPRVY- 69

Qy 113 NTV 115

Db 70 NFL 72

RESULT 2

US-09-621-976-5196

; Sequence 5196, Application US/09621976
; Patent No. 6639953

; GENERAL INFORMATION:

; APPLICANT: Dumas, Milne Edwards, J.-B.

; APPLICANT: Jobert, S.

; APPLICANT: Giordano, J. V.

; TITLE OF INVENTION: ESTs and Encoded Human Proteins.

measuring human gene expression in a sample derived from human adult liver, comprising one of 131,09 defined nucleotide sequences given in the stringency to a nucleic acid molecule expressed in the human adult liver. (I) may be used for predicting, measuring and displaying gene expression in samples derived from human adult liver. The genes identified may be involved in genetic liver diseases such as cirrhosis, hyperlipoproteinæmia, hyperlipidaemia and hypercholesterolaemia which is associated with coronary heart disease. A647348-AB659930 represent human liver single exon encoded peptides of the invention. Note: The sequence information for this patent does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences

Sequence 56 AA:

Query Match 48.3%; Score 305; DB 4; Length 56;

Best Local Similarity 100.0%; Pred. No. 3e-28; Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 49 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 104

Db 1 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 56

RESULT 1.3

AAM02689 standard; protein: 56 AA.

XX

AC AAM02689

XX DT 09-OCT-2001 (first entry)

Peptide #1371 encoded by probe for measuring breast gene expression.

XX DE

Probe; human; breast disease; breast cancer; development disorder; inflammatory disease; proliferative breast disease; non-carcinoma tumour.

XX KW

OS Homo sapiens.

XX PN WO2001057270-A2.

XX PD 09-AUG-2001.

XX PP 29-JAN-2001; 2001WO-US000661.

XX PR 04-FEB-2000; 2000US-0180312P.

PR 26-MAY-2000; 2000US-0207456P.

PR 03-AUG-2000; 2000US-00632366.

PR 21-SEP-2000; 2000US-0234687P.

PR 27-SEP-2000; 2000US-0236359P.

PR 04-OCT-2000; 2000US-00024263.

XX PA (MOLE-) MOLECULAR DYNAMICS INC.

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX DR WPI; 2002-114183/15.

XX PT Novel single exon nucleic acid probe used to measuring gene expression in a human breast.

XX PT Claim 27; SEQ ID NO 11429; 322pp; English.

XX PS XX

PS The present invention relates to novel single exon nucleic acid probes (see AA100010-AA11067). The present sequence is a peptide encoded by one such probe. The probes are useful for measuring human gene expression in a human breast sample, where the probe hybridises at high stringency to a nucleic acid expressed in the human breast. The probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosis

CC diseases of the human breast, particularly those diseases with polygenic

CC aetiology. The diseases include: breast cancer, disorders of development,

CC

CC inflammatory diseases of the breast, fibrocytic changes, proliferative breast disease and non-carcinoma tumours. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences

SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;

Best Local Similarity 100.0%; Pred. No. 3e-28; Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 49 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 104

Db 1 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 56

RESULT 1.4

ABG36762 standard; peptide: 56 AA.

XX ID ABG36762

XX ABG36762;

XX AC ABG36762;

XX DT 19-AUG-2002 (first entry)

XX Human peptide encoded by genome-derived single exon probe SEQ ID 26427.

XX DE Human

XX

SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;

Best Local Similarity 100.0%; Pred. No. 3e-28; Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 49 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 104

Db 1 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 56

RESULT 1.3

ABG36762

ID ABG36762

XX ABG36762;

XX AC ABG36762;

XX DT 19-AUG-2002 (first entry)

XX Human peptide encoded by genome-derived single exon probe SEQ ID 26427.

XX

SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;

Best Local Similarity 100.0%; Pred. No. 3e-28; Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 49 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 104

Db 1 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 56

RESULT 1.4

ABG36762

ID ABG36762

XX ABG36762;

XX AC ABG36762;

XX DT 19-AUG-2002 (first entry)

XX Human peptide encoded by genome-derived single exon probe SEQ ID 26427.

XX

SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;

Best Local Similarity 100.0%; Pred. No. 3e-28; Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 49 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 104

Db 1 FPEVYPLNIGCAHFTRLSLRLCYEDTMLAAMFSGRHYIPTDSGRYFIDRGTHF 56

RESULT 1.4

ABG36762

ID ABG36762

XX ABG36762;

XX AC ABG36762;

XX DT 19-AUG-2002 (first entry)

XX Human peptide encoded by genome-derived single exon probe SEQ ID 26427.

XX

SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;

Best Local Similarity 100.0%; Pred. No. 3e-28; Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX Homo sapiens.
 XX OS Homo sapiens.
 XX PN WO200157276-A2.
 XX PD 09-AUG-2001.
 XX PF 30-JAN-2001; 2001WO-US000668.
 XX PR 04-FEB-2000; 2000US-0180312P.
 XX PR 26-MAY-2000; 2000US-0207456P.
 XX PR 30-JUN-2000; 2000US-00608408.
 XX PR 03-AUG-2000; 2000US-00632366.
 XX PR 21-SEP-2000; 2000US-0234687P.
 XX PR 27-SEP-2000; 2000US-0235358P.
 XX PR 04-OCT-2000; 2000US-00024263.
 XX PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX DR WPI; 2001-483446/52.
 XX PT Single exon nucleic acid probes for analyzing gene expression in human
 XX PT brains.
 XX PS Example 4; SEQ ID NO 26807; 658pp + Sequence Listing; English.
 XX The present invention provides a number of single exon nucleic acid
 CC probes which are derived from genomic sequences expressed in the human
 CC brain. They can be used to measure gene expression in brain cell samples,
 CC which may enable the diagnosis and improved treatment of nervous system
 CC diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia,
 CC epilepsy and cancers. The present sequence is a protein encoded by one of
 CC the probes of the invention.
 XX SQ Sequence 56 AA;
 Query Match 48.3%; Score 305; DB 4; Length 56;
 Best Local Similarity 100.0%; Pred. No. 3e-28;
 Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX Qy 49 PPPVPLNIGGAHFTTRLSTLRCYDMLAAMPSGRHYIPTDSGRYFIDRDGTHF 104
 DB 1 FPEVVPPLNIGGAHFTTRLSTLRCYDMLAAMPSGRHYIPTDSGRYFIDRDGTHF 56
 RESULT 12
 ID ABG48768 standard; peptide; 56 AA.
 XX AC ABG48768;
 XX AC ABG48768;
 XX DT 25-FEB-2003 (first entry)
 XX DE Human liver peptide, SEQ ID No 27416.
 XX KW Human; liver; cirrhosis; hyperlipoproteinemia; hyperlipidaemia;
 XX KW hypercholesterolaemia; coronary heart disease.
 XX OS Homo sapiens.
 XX PN WO200157273-A2.
 XX PD 09-AUG-2001.
 XX PP 30-JAN-2001; 2001WO-US000664.
 XX PR 04-FEB-2000; 2000US-0180312P.
 XX PR 26-MAY-2000; 2000US-0207456P.
 XX PR 30-JUN-2000; 2000US-00608408.
 XX PR 03-AGS-2000; 2000US-00632366.
 XX PR 21-SEP-2000; 2000US-0234687P.
 XX PR 27-SEP-2000; 2000US-0235359P.
 XX PR 04-OCT-2000; 2000US-00024263.
 XX PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX DR WPI; 2001-488898/53.
 XX PT Human genome-derived single exon nucleic acid probes useful for analyzing
 PT gene expression in human adult liver.
 XX PS Claim 27; SEQ ID NO 27416; 658pp; English.
 XX CC the invention relates to a single exon nucleic acid probe (SENP) (1) for

XX Homo sapiens.
 XX OS Homo sapiens.
 XX PN WO200157275-A2.
 XX PD 09-AUG-2001.
 XX PP 30-JAN-2001; 2001WO-US000667.
 XX PR 04-FEB-2000; 2000US-0180312P.
 XX PR 26-MAY-2000; 2000US-0207456P.
 XX PR 30-JUN-2000; 2000US-00608408.
 XX PR 03-AUG-2000; 2000US-00632366.
 XX PR 21-SEP-2000; 2000US-0234687P.
 XX PR 27-SEP-2000; 2000US-0235359P.

PT Human genome-derived single exon nucleic acid probes useful for analyzing
 PT gene expression in human cervical epithelial cells.
 XX
 PS Claim 27; SEQ ID NO 19789; 487pp; English.
 CC The present invention relates to human single exon nucleic acid probes encoded
 CC by one such probe. The present sequence is a peptide encoded
 CC (SENPs; see AAI10068-AA12849). The present sequence is a peptide encoded
 CC from human foetal liver. The probes are derived from human foetal liver. The
 CC probes are useful for predicting, measuring and displaying gene expression in samples
 CC derived from human foetal liver. The probes are therefore
 CC useful in grading and/or staging of diseases of the cervix, notably
 CC cervical cancer. Note: The sequence data for this patent did not form
 CC part of the printed specification, but was obtained in electronic format
 CC directly from WIPO at ftp://ftp.wipo.int/pub/published_pct_sequences

SQ Sequence 56 AA;

Query Match 48.3%; Score 305; DB 4; Length 56;

Best Local Similarity 100.0%; Pred. No. 3e-28; Indels 0; Gaps 0;

Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 49 FPEVVPNIGGAHFTRLSTRLCYBDTMLAAMPSGRHYIPDSEGRYFIDRGTHF 104
 Db 1 FPEVVPNIGGAHFTRLSTRLCYBDTMLAAMPSGRHYIPDSEGRYFIDRGTHF 56RESULT 7
 AAM27397
 ID AAM27397 standard; protein; 56 AA.XX
 AC AAM27397;
 XX
 DT 17-Oct-2001 (first entry)
 XX
 DB Peptide #1434 encoded by probe for measuring placental gene expression.
 XX
 KW Probe: microarray; human; placenta; antenatal diagnosis;
 KW Genetic disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO200157272-A2.
 XX
 PD 09-AUG-2001.
 XX
 PP 2001WO-US000663.
 XX
 PR 04-FEB-2000; 2000US-018012P.
 PR 26-MAY-2000; 2000US-020756P.
 PR 30-JUN-2000; 2000US-0060408.
 PR 03-AUG-2000; 2000US-0163366.
 PR 21-SEP-2000; 2000US-0234587P.
 PR 27-SEP-2000; 2000US-0236599P.
 PR 04-OCT-2000; 2000GB-00024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 DR 2001-488897/53.

XX
 PT Human genome-derived single exon nucleic acid probes useful for analyzing
 PT gene expression in human placenta.
 XX
 PR 04-FEB-2000; 2000US-0180312P.
 PR 26-MAY-2000; 2000US-0297456P.
 PR 30-JUN-2000; 2000US-00608408.
 PR 03-AUG-2000; 2000US-00632356.
 PR 27-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 DR 2001-483447/52.

XX
 PT Human genome-derived single exon nucleic acid probes useful for analyzing
 PT gene expression in human fetal liver.
 XX
 PS Claim 27; SEQ ID NO 26574; 639pp + Sequence Listing; English.
 XX
 The invention relates to a single exon nucleic acid probe for measuring
 CC human gene expression in a sample derived from human foetal liver. The
 CC single exon nucleic acid probes may be used for predicting, measuring and
 CC displaying gene expression in samples derived from human fetal liver. The
 CC present sequence is a peptide encoded by a single exon nucleic acid probe
 CC of the invention. Note: The sequence data for this patent did not form
 CC part of the printed specification, but was obtained in electronic format
 CC directly from WIPO at ftp://ftp.wipo.int/pub/published_pct_sequences

RESULT 8
 ABB28752

CC directly from WIPO at ftp://ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 56 AA;
 Query Match 48.3%; Score 305; DB 4; Length 56;
 Best Local Similarity 100.0%; Pred. No. 3e-28; Indels 0; Gaps 0;
 Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 49 FPEVVPNIGGAHFTRLSTRLCYBDTMLAAMPSGRHYIPDSEGRYFIDRGTHF 104
 Db 1 FPEVVPNIGGAHFTRLSTRLCYBDTMLAAMPSGRHYIPDSEGRYFIDRGTHF 56

PA (HELI-) HELIX RES INST.
 (RES-) RES ASSOC BIOTECHNOLOGY.

XX PA Claim 3; Page 12-13; 20pp; English.

XX PS

XX CC The invention relates to an isolated nucleic acid molecule encoding a novel human membrane protein/ion channel-related protein, including a vector sequence encoding the protein. The nucleic acid and its encoded amino acid sequences are useful in therapeutic, diagnostic and pharmaceutical applications. The nucleic acid sequences and the encoding amino acid sequences are useful in microarrays or other assay formats, to screen a collection of genetic material from patients that have a particular medical condition, and to identify mutations associated with a particular disease, and also in diagnostic or prognostic assays.

XX CC Nucleic acid sequences and the amino acid sequences are useful in screening of drugs effective in the treatment of symptomatic or phenotypic manifestation perturbing the normal function of a new human protein (NHP) in the body. The nucleic acid and the amino acid sequences are useful in diagnosis, drug screening, clinical trial monitoring, the treatment of diseases and disorders and in cosmetic or nutritional applications. NHPs are useful to treat a disease or to therapeutically augment the efficacy of chemotherapeutic agents useful in the treatment of cancer, arthritis or as antiviral agents. The present sequence represents a novel human membrane protein/ion channel-related protein.

XX SQ

XX Sequence 106 AA;

XX Score 385; DB 5; Length 106;

XX Best Local Similarity 97.3%; Pred. No. 2.5e-37;

XX Matches 2; Mismatches 0; Indels 0; Gaps 0;

XX Query 48 EFPEVPLNIGGAHFTRLSTRCYEDTMLAAMPSGRHYIPPDSEGRYFIDRGTHFGVY 107

XX Database 34 QPPEVPLNIGGAHFTRLSTRCYEDTMLAAMPSGRHYIPPDSEGRYFIDRGTHFGVY 93

XX

XX Sequence 289 AA;

XX Score 560.5; DB 6; Length 289;

XX Best Local Similarity 91.7%; Pred. No. 1.9e-57;

XX Matches 3; Mismatches 2; Indels 5; Gaps 2;

XX

Qy 1 MYYVTGRRDPSRQDGANSSSDADDPLRATPATOQAGHALPLPQSPPEVPLNIGGA 60

Db 1 MYYVTGRRDPSRQDGANSSSDADDPLRATPATOQAGHALPLPQSPPEVPLNIGGA 60

Qy 61 HFTTRLSTRCYEDTMLAAMPSGRHYIPPDSEGRYFIDRGTHFGVYSPSTINVLAGD 120

Db 61 HFTTRLSTRCYEDTMLAAMPSGRHYIPPDSEGRYFIDRGTHFGDVA---LNP-LRSGD 115

Qy 108 SPSTINVLAGD 120

Db 94 SPSTINVLAGD 106

XX

RESULT 4

ABG77922 ID ABG70922 standard; protein; 106 AA.

XX AC

XX DT 10-DEC-2002 (first entry)

XX DB Human novel membrane protein #3.

XX KW Human; membrane protein; signal transduction; ion channel; cancer; arthritis; antiviral; cytostatic; antiarthritic; nutritional; cosmetic.

XX OS Homo sapiens.

XX PN US2002119522-A1.

XX PD 29-AUG-2002.

XX PP 18-DEC-2001; 2001US-00024579.

XX PR 28-DEC-2000; 2000US-0258595P.

XX (FRID.) FRIDDLE C J.

XX (GERH.) GERHARDT B.

XX (HILB.) HILBUN E.

XX (TURN.) TURNER C A.

XX PI Fiddle CJ, Gerhardt B, Hilbun E, Turner CA;

XX DR 2002-731353/79.

XX N-PSDB; AB55071.

XX

XX PA (MOL-) MOLECULAR DYNAMICS INC.

XX

XX PR 04-FEB-2000; 2000US-0180312P.

XX PR 26-MAY-2000; 2000US-0207456P.

XX PR 30-JUN-2000; 2000US-00608408.

XX PR 03-AUG-2000; 2000US-00632366.

XX PR 21-SEP-2000; 2000US-0234687P.

XX PR 27-SEP-2000; 2000US-0235359P.

XX PR 04-OCT-2000; 2000US-00024263.

XX PA

XX PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX PR 2001-488901/53.

XX

XX PT New human ion channel-related nucleic acid sequences useful for the diagnostic and therapeutic treatment of cancer, arthritis or as antiviral agents, in therapeutic and pharmaceutical applications.

XX Claim 3; Page 12; 20pp; English.

XX The invention relates to an isolated nucleic acid molecule encoding a novel human membrane protein-related protein, including a vector sequence encoding the protein. The nucleic acid and its encoded amino acid sequences are useful in therapeutic, diagnostic and pharmacogenomic applications. The nucleic acid sequences and the encoding amino acid sequences are useful in microarrays or other assay formats, to screen a collection of genetic material from patients that have particular medical conditions, and to identify mutations associated with a particular disease, and also in diagnostic or prognostic assays.

XX Nucleic acid sequences and the amino acid sequences are useful in screening of drugs effective in the treatment of symptomatic or phenotypic manifestation perturbing the normal function of a new human protein (NHP) in the body. The nucleic acid and the amino acid sequences are useful in diagnosis, drug screening, clinical trial monitoring, the treatment of diseases and disorders, and in cosmetic or nutritional applications. NHPs are useful to treat a disease, or to therapeutically augment the efficacy of chemotherapeutic agents useful in the treatment of cancer, arthritis or as antiviral agents. The present sequence represents a novel human membrane protein/channel-related protein.

XX Sequence 120 AA;

Query Match 100.0%; Score 631; DB 5; Length 120;
Best Local Similarity 100.0%; Pred. No. 2.7e-65;
Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MYYVGRGDSRQDGAMSSDAEDDFLRPATPATQAGHALPQPFPVPLNIGGA 60
Db 1 MYYVGRGDSRQDGAMSSDAEDDFLRPATPATQAGHALPQPFPVPLNIGGA 60

Qy 61 HFTTRLSTIRCYDTMLLAAMPSGRHYIPTDSGRYFIDRGTHGTVSPSTINFVLAGD 120
Db 61 HFTTRLSTIRCYDTMLLAAMPSGRHYIPTDSGRYFIDRGTHGTVSPSTINFVLAGD 120

Sequence 271 AA;

Query Match 88.8%; Score 560.5; DB 3; Length 271;
Best Local Similarity 91.7%; Pred. No. 1.7e-57;
Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

Qy 1 MYYVGRGDSRQDGAMSSDAEDDFLRPATPATQAGHALPQPFPVPLNIGGA 60
Db 1 MYYVGRGDSRQDGAMSSDAEDDFLRPATPATQAGHALPQPFPVPLNIGGA 60

Qy 61 HFTTRLSTIRCYDTMLLAAMPSGRHYIPTDSGRYFIDRGTHGTVSPSTINFVLAGD 120
Db 61 HFTTRLSTIRCYDTMLLAAMPSGRHYIPTDSGRYFIDRGTHGTVSPSTINFVLAGD 120

RESULT 2
AAB15537
XX AAB15537 standard; protein; 271 AA.
AC AAB15537;
XX 28-FEB-2001 (first entry)
DT 20-NOV-2003 (first entry)
XX Human immune system molecule from Incyte clone 2751129.
XX Anti-inflammatory; keratolytic; anti-HIV; anti-allergic; antianaemic;
KW antiarteriosclerotic; antiasthmatic; antidiabetic; nephrotropic; cancer;
KW antigen; dermatological; antithyroid; virucide; hepatotropic; antibody;
KW immunosuppressive; cytostatic; fungicide; protozoicide; antibacterial;
KW gene therapy; diagnostic; immunological disorder; viral infection;
KW bacterial infection; fungal infection; parasitic infection; immunogen.
OS Homo sapiens.
XX WO200060080-A2.
PN 12-OCT-2000.
PD 04-APR-2000; 2000WO-US009072.
XX 05-APR-1999; 99US-0127852P.
PR 05-MAY-1999; 99US-0132617P.
XX (INCY-) INCYTE PHARM INC.
PA Yue H, Lal P, Tang YT, Baughn MR, Azimzai Y, Lu DAM;
XX WPI; 2000-665005/64.
DR N-PSDB; AAA95776.
XX

PT New human immune system molecules 1-15 and polymucleotides encoding them useful for diagnosing, treating or preventing e.g. immunological disorders, infections, cell proliferative disorder, microbial infections.

PT XX

PS Claim 1; Page 77; 95pp; English.

XX This sequence represents a human immune system molecule (IMOL) encoded by the cDNA isolated as clone 2751129 from the Incyte THPAZS08 library. The human IMOLs (AAAB1553-BA5550) and their encoding polymucleotides (AAA95775-B95789), and compositions comprising them are useful for the diagnosis, treatment or prevention of immunological disorders, infections and cell proliferative disorders, including cancer. The IMOL may be used to treat or prevent disorders associated with decreased expression or activity of IMOL, such as immunological disorders (e.g. inflammation, active keratols, AIDS, Addison's disease), haemopoietic cancer, infections caused by virus (e.g. adenovirus, Parvovirus, coronavirus), bacteria (e.g. Staphylococcus, Streptococcus, Shigella), fungi (e.g. Aspergillus, Blastomycs), parasites (e.g. Plasmodium, Trypanosoma, intestinal protozoal, cell proliferative disorders (e.g. acinic keratosis, arteriosclerosis, bursitis), and cancers (e.g. leukemia, melanoma, sarcoma). The peptides are also useful as immunogens for the development of antibodies that specifically recognizes these peptides.

CC The polymucleotides may be used to detect and quantify gene expression in biopsied tissues in which expression of IMOL may be correlated with the disease, as targets in a microarray, to detect differences in gene sequences among normal, carrier and affected individuals, and for screening libraries of compounds in drug screening techniques. Antibodies which specifically bind to IMOL may be used for the diagnosis of disorders characterized by expression of IMOL, or in assays to monitor patients being treated with IMOL or agonists, antagonists, or inhibitors of IMOL.

CC SQ Sequence 271 AA;

Query Match 88.8%; Score 560.5; DB 3; Length 271;
Best Local Similarity 91.7%; Pred. No. 1.7e-57;
Matches 110; Conservative 3; Mismatches 2; Indels 5; Gaps 2;

Qy 1 MYYVGRGDSRQDGAMSSDAEDDFLRPATPATQAGHALPQPFPVPLNIGGA 60
Db 1 MYYVGRGDSRQDGAMSSDAEDDFLRPATPATQAGHALPQPFPVPLNIGGA 60

Qy 61 HFTTRLSTIRCYDTMLLAAMPSGRHYIPTDSGRYFIDRGTHGTVSPSTINFVLAGD 120
Db 61 HFTTRLSTIRCYDTMLLAAMPSGRHYIPTDSGRYFIDRGTHGTVSPSTINFVLAGD 120

RESULT 3
ADAS5116
ID ADAS5116 standard; protein; 289 AA.
XX ADAS5116;
AC ADAS5116;
XX 20-NOV-2003 (first entry)
DT 20-NOV-2003 (first entry)
XX Human protein, SEQ ID 2684.
XX Cytotoxic; Anti-inflammatory; Osteopathic; Neuroprotective; Nootropic;
KW Gene Therapy; human; secretory protein; membrane proteins; cancer;
KW inflammatory disease; osteoporosis; neurological disease.
OS Homo sapiens.
XX EP1293569-A2.
PN 19-MAR-2003.
XX PD 21-MAR-2002; 2002EP-00006586.
PP 14-SEP-2001; 2001JP-00328381.
PR 24-JAN-2002; 2002US-0350435P.
XX

SULT 15
54671
CUS CB546071 mRNA linear EST 01-APR-2003
DEFINITION AMGNNUC:NRDG1-00092-D9-A nrddg1 (10855) *Rattus norvegicus* cDNA clone nrddg1-00092-d9 5', mRNA sequence.
VERSION CB546071
CREATION CB546071.1
EST GI:29430012
KEYWORDS
ORGANISM Rattus norvegicus (Norway rat)
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
REFERENCE 1 (bases 1 to 620)
AUTHORS Amgen EST Program.
TITLE Amgen Rat EST Program
JOURNAL Unpublished (2003)
COMMENT Amgen, Inc
Plates One Amgen Center Drive, Thousand Oaks, CA 91320-1799, USA
Row 9
Column 9
Cell 805 447-4881
Line 00092

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 8, 2004, 09:16:07 ; Search time 2522 Seconds

(without alignments)
4298.165 Million cell updates/sec

Title: US-10-024-579-4

Perfect score: 363

Sequence: 1 atgggttagtcacggggcg.....tagctctagcgggtatag 363

Scoring table: IDENTITY_NUC GapOp 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters:

55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post processing: Minimum Match 0%, Maximum Match 100%

Listing first 45 summaries

Database : EST:*

1: em_estba:*

2: em_estthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estrpl:*

7: em_estro:*

8: em_hic:*

9: gb_est1:*

10: gb_est2:*

11: gb_hic:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: em_sss_num:*

18: em_sss_inv:*

19: em_sss_pln:*

20: em_sss_vrt:*

21: em_sss_fun:*

22: em_sss_man:*

23: em_sss_mus:*

24: em_sss_pro:*

25: em_sss_rod:*

26: em_sss_phg:*

27: em_sss_vrt:*

28: gb_gss1:*

29: gb_gss2:*

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	307.8	84.8	925 13	BU902852
2	294.8	81.2	978 12	BU902852
3	262.4	72.3	569 14	CP162776
4	262.4	72.3	617 13	BY722445

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

BB626649	BB626649	BB626649	BB626649	BB626649
BB655300	BB655300	BB655300	BB655300	BB655300
BB616333	BB616333	BB616333	BB616333	BB616333
BB658221	BB658221	BB658221	BB658221	BB658221
AK099412	Mus muscu	Mus muscu	Mus muscu	Mus muscu
AK034583	Mus muscu	Mus muscu	Mus muscu	Mus muscu
AK083583	Mus muscu	Mus muscu	Mus muscu	Mus muscu
BB626934	BB626934	BB626934	BB626934	BB626934
BB857275	BB857275	BB857275	BB857275	BB857275
BB431372	BB431372	BB431372	BB431372	BB431372
CB546071	AMZNNUC.N	AMZNNUC.N	AMZNNUC.N	AMZNNUC.N
BB646865	BB646865	BB646865	BB646865	BB646865
BT02844	UI-N-FC0-	UI-N-FC0-	UI-N-FC0-	UI-N-FC0-
AJ774184	wc0C08.X	wc0C08.X	wc0C08.X	wc0C08.X
BT388953	60805516	60805516	60805516	60805516
BB192850	60805516	60805516	60805516	60805516
AJ447425	AJ447425	AJ447425	AJ447425	AJ447425
BY132675	BY132675	BY132675	BY132675	BY132675
BY184896	AGGCOURT	AGGCOURT	AGGCOURT	AGGCOURT
BY153097	BY153097	BY153097	BY153097	BY153097
BB244090	TCAP1E06	TCAP1E06	TCAP1E06	TCAP1E06
BB854860	BB854860	BB854860	BB854860	BB854860
BB856997	BB856997	BB856997	BB856997	BB856997
BB857546	BB857546	BB857546	BB857546	BB857546
BT149552	Tetraodon	Tetraodon	Tetraodon	Tetraodon
CK017002	AGGCOURT	AGGCOURT	AGGCOURT	AGGCOURT
BT211328	60417544	60417544	60417544	60417544
CA347612	678759	678759	678759	678759
BB882754	BB882754	BB882754	BB882754	BB882754
BB601700	BB601700	BB601700	BB601700	BB601700
BY152426	BY152426	BY152426	BY152426	BY152426
BY420591	Homo sapi	Homo sapi	Homo sapi	Homo sapi
AY420592	Pan trogl	Pan trogl	Pan trogl	Pan trogl
AY420593	Mus muscu	Mus muscu	Mus muscu	Mus muscu
CA183840	664123	664123	664123	664123
BK085304	BK085304	BK085304	BK085304	BK085304
AL260915	Tetraodon	Tetraodon	Tetraodon	Tetraodon
AW645752	Cm56503.W	Cm56503.W	Cm56503.W	Cm56503.W
AW635487	AW635487	AW635487	AW635487	AW635487
AW63406.W	AW63406.W	AW63406.W	AW63406.W	AW63406.W

ALIGNMENTS

BB902852	BB902852	BB902852	BB902852	BB902852	
LOCUS	LOCUS	LOCUS	LOCUS	LOCUS	
DEFINITION	AGGCOURT_10180053	AGGCOURT_10180053	AGGCOURT_10180053	AGGCOURT_10180053	
5',	cRNA	cRNA	cRNA	cRNA	
ACCESSION	BU902852	BU902852	BU902852	BU902852	
VERSION	EST.	EST.	EST.	EST.	
KEYWORDS					
SOURCE	Homo sapiens	Homo sapiens	Homo sapiens	Homo sapiens	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Rutheria; Primates; Catarrhini; Hominidae; Homo.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Rutheria; Primates; Catarrhini; Hominidae; Homo.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Rutheria; Primates; Catarrhini; Hominidae; Homo.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Rutheria; Primates; Catarrhini; Hominidae; Homo.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Rutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 925)				
AUTHORS					
TITLE	NTH-MGCC	NTH-MGCC	NTH-MGCC	NTH-MGCC	NTH-MGCC
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)	National Institutes of Health, Mammalian Gene Collection (MGC)	National Institutes of Health, Mammalian Gene Collection (MGC)	National Institutes of Health, Mammalian Gene Collection (MGC)	National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT	Unpublished (1999)				
	Contact: Robert Strausberg, Ph.D.				
	Email: cgabps-re@mail.nih.gov				
	Tissue Procurement: ATCC				
	cDNA Library Preparation: Life Technologies, Inc.				
	CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LiNL)	CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LiNL)	CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LiNL)	CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LiNL)	CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LiNL)
	DNA Sequencing by: Agencourt Bioscience Corporation				
	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LiNL at:	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LiNL at:	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LiNL at:	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LiNL at:	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LiNL at:
	http://imgt.llnl.gov	http://imgt.llnl.gov	http://imgt.llnl.gov	http://imgt.llnl.gov	http://imgt.llnl.gov
	Plate: ILMN14126				
	row: h				
	High Quality sequence stop: 638.				

RESULT 7

Db 406 GCGCTGCCCTGCTGCCACAGAGTTCTGAGCTAACATGGAGGGT 465
 ; OTHER INFORMATION: MAP TO AC006001.2
 ; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.6
 ; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 12
 ; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 5.4
 ; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.8
 ; OTHER INFORMATION: EXPRESSED IN BONE, SIGNAL = 7.3
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Qy 181 CACTCTACTACAGCCCTTCAACTCGGCTCTCAAGAGCACCAGTTCAGCCTG 240
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 ; OTHER INFORMATION: EXPRESSED IN BONE, SIGNAL = 7.3
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Db 466 CACTCTACTACAGCCCTTCAACTCGGCTCTCAAGAGCACCAGTTCAGCCTG 525
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 ; OTHER INFORMATION: EXPRESSED IN BONE, SIGNAL = 7.3
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
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 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

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 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

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 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Qy 301 GCGACACACTTGGGTATGT 320
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 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Db 586 GCGACACCTGGGTAGGT 605
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 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Query Match 61.1%; Score 221.8; DB 9; Length 473;
 Best Local Similarity 86.8%; Pred. No. 7.7e-62;
 Matches 244; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

Qy 83 TGGACCGGGCACGGAGCGACGGGCGACCGGCGCCCTGCTGCCACAGG 142
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 ; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.8
 ; OTHER INFORMATION: EXPRESSED IN BONE, SIGNAL = 7.3
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
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 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
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 ; US-09-864-761-1385

Db 461 TGGACCGGGCACGGGCGACCGGCGCCCTGCTGCCACAGG 402
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 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
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 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Qy 143 AGTTCTGAGGGTTCTCCCTTAACATGGAGGGCTGACTTCATGAGCTGCTGCCA 202
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 ; OTHER INFORMATION: EXPRESSED IN BONE, SIGNAL = 7.3
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
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 ; US-09-864-761-1385

Db 401 AGTTCTGAGGGTTCTCCCTTAACATGGAGGGCTGACTTCATGAGCTGCTGCCA 342
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 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Qy 203 CACTGGGGCTTAAGAGCACCATGTTGAGGGGACTACATCC 262
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 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
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 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Db 341 CACTGGGGCTTAAGAGCACCATGTTGAGGGGACTACATCC 282
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 ; OTHER INFORMATION: EXPRESSED IN BONE, SIGNAL = 7.3
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 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Qy 263 CCACCGACTCCGGGGCCGCTACTCATGACCGAGATGGCACACCTGGGTATGCT 322
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 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
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 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
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 ; US-09-864-761-1385

Db 281 CCACCGACTCCGGGGCCGCTACTCATGACCGAGATGGCACACCTGGGTATGCT 222
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 ; US-09-864-761-1385

Qy 323 CTCCCTCTACATCATGACTTGTAGCTGCTGAGCTGATGTAGT 363
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 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
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 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

Db 221 CTCCCTCTACATCATGACTTGTAGCTGCTGAGCTGATGTAGT 181
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 ; OTHER INFORMATION: EXPRESSED IN BONE, SIGNAL = 7.3
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
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 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-09-864-761-1385

RESULT 8

US-10-086-156-29
 ; Sequence 29, Application US/10086156
 ; Publication No. US20030054989A1

GENERAL INFORMATION:
 ; APPLICANT: Bristol-Myers Squibb Company
 ; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL BETA-SUBUNIT
 ; TITLE OF INVENTION: K+betaM4 and K+betaM5
 ; FILE REFERENCE: D0115NP
 ; CURRENT APPLICATION NUMBER: US/10/086156
 ; CURRENT FILING DATE: 2002-02-28
 ; PRIOR APPLICATION NUMBER: US 60/272,190
 ; PRIOR FILING DATE: 2001-02-28
 ; PRIOR APPLICATION NUMBER: US 60/274,258
 ; PRIOR FILING DATE: 2001-03-07
 ; NUMBER OF SEQ ID NOS: 98
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 29
 ; LENGTH: 583
 ; TYPE: DNA
 ; ORGANISM: homo sapiens
 ; US-10-086-156-29

Query Match 61.1%; Score 221.8; DB 15; Length 583;
 Best Local Similarity 86.8%; Pred. No. 8.1e-62;
 Matches 244; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

Qy 83 TGGACCGGGCACGGAGCGACGGGCGACCGGCGCCCTGCTGCCACAGG 142
 ; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.8
 ; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.8
 ; OTHER INFORMATION: EXPRESSED IN BONE, SIGNAL = 7.3
 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-10-086-156-29

Db 145 TGGACCGGGCACGGAGCGACGGGCGACCGGCGCCCTGCTGCCACAGG 204
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 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-10-086-156-29

Qy 143 AGTTCTGAGGGTTCTCCCTTAACATGGAGGGCTGACTTCATGAGCTGCTGCCA 202
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 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-10-086-156-29

Db 205 AGTTCTGAGGGTTCTCCCTTAACATGGAGGGCTGACTTCATGAGCTGCTGCCA 264
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 ; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
 ; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 8.5
 ; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 5.5
 ; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.4
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 6.4
 ; US-10-086-156-29

FEATURE: ORGANISM: Homo sapiens
 LENGTH: 583
 TYPE: DNA
 SEQ ID NO: 1385
 SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
 NUMBER OF SEQ ID NOS: 49117
 SEQ ID NO: 1385
 FEATURE: ORGANISM: Homo sapiens
 LENGTH: 583

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:
LENGTH: 2576
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TYPE: DNA
:
ORGANISM: Homo sapiens
:
US-10-094-749-1045
:
Query Match          87.3%;  Score 316.8;  DB 16;  Length 2576;
Best Local Similarity 99.4%;  Pred. No. 1.6e-92;  Indels 0;  Gaps 0;
Matches 318;  Conservative 0;  Mismatches 2;  Insertions 0;  Deletions 0;
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Qy          1 ATGGTGTAGTACGGGGGAGCCAGACGCCAGCGCTCGTCAAGGACCGTGCATGTCAGC 60
Db          108 ATGGTGTAGTACGGGGGAGCCAGACGCCAGCGCTCGTCAAGGACCGTGCATGTCAGC 167
:
Qy          61 TCTGACCCGAGAACGACTTCTGGCCGCCAACCCGAGCGCCAGGGCCAGGGGGGGCAC 120
Db          168 TCTGACCCGAGAACGACTTCTGGCCGCCAACCCGAGCGCCAGGGGGGGCAC 227
:
Qy          121 GCGCTGCCCTGCTGCCAACAGAGTTCTGAGGTTCTGGCTTCCCTTAACATGGAGGGCT 180
Db          228 GGGCTGCCCTGCTGCCAACAGAGTTCTGAGGTTCTGGCTTCCCTTAACATGGAGGGCT 287
:
Qy          181 CACTTCACTAACGCGCTTCCACACTGGGGCTAACAGACCACTGGCATG 240
Db          288 CACTTCACTAACGCGCTTCCACACTGGGGCTAACAGACCACTGGCATG 347
:
Qy          241 TTAGTGGGGCCTACATACATCCCAAGCGAACGGCTAACAGACCACTGGCATG 300
Db          348 TTAGTGGGGCCTACATACATCCCAAGCGAACGGCTAACAGACCACTGGCATG 407
:
Qy          301 GCGACACACTTGGGTATGT 320
Db          408 GCGACACACCTGGGATGT 427
:
RESULT 6
US-10-086-156-23
:
Sequence 23, Application US/10086156
:
Publication No. US2003005499a1
:
GENERAL INFORMATION:
:
  APPLICANT: Bristol-Myers Squibb Company
  TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING TWO NOVEL HUMAN POTASSIUM CHANNEL
  FILE REFERENCE: 10115NP
  CURRENT APPLICATION NUMBER: US/10/086,156
  PRIOR APPLICATION NUMBER: 2002-02-28
  PRIOR FILING DATE: 2002-02-28
  PRIOR APPLICATION NUMBER: US 60/274,258
  PRIOR FILING DATE: 2001-03-07
  NUMBER OF SEQ ID NOS: 98
  SOFTWARE: PatentIn version 3.0
  SEQ ID NO: 23
  LENGTH: 2154
:
  TYPE: DNA
  ORGANISM: homo sapiens
  FEATURE:
  NAME/KEY: CDS
  LOCATION: (1)..(1029)
:
US-10-086-156-23
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Query Match          86.0%;  Score 315.2;  DB 15;  Length 2154;
Best Local Similarity 99.1%;  Pred. No. 5e-92;  Indels 0;  Gaps 0;
Matches 317;  Conservative 0;  Mismatches 3;  Insertions 0;  Deletions 0;
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Qy          1 ATGGTGTAGTACGGGGGAGAACGACTTCTGGCCGCCAACCCGAGCGCCAGGGGGCAC 60
Db          286 ATGGTGTAGTACGGGGGAGAACGACTTCTGGCCGCCAACCCGAGCGCCAGGGGGCAC 345
:
Qy          61 TCTGACCCGAGAACGACTTCTGGCCGCCAACCCGAGCGCCAGGGGGCAC 120
Db          346 TCTGACCCGAGAACGACTTCTGGCCGCCAACCCGAGCGCCAGGGGGCAC 405
:
Qy          121 GGGCTGCCCTGCTGCCAACAGAGTTCTGGCTTCCCTTAACATGGAGGGCT 180

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Gencore version 5.1.6

OM nucleic - nucleic search, using SW model.

Run on: June 8, 2004, 09:30:35 ; Search time 348 Seconds (without alignments)

Sequence: 4758.634 Million cell updates/sec

Title: US-10-024-579-4

Perfect score: 363

Sequence: 1 atgggttagtcacggggcg,.....tagtcttagcagggtgattag 363

Scoring table: IDENTITY_NUC

Gapext 1.0 , Gapext 1.0

Searched: 2995936 seqs, 2280998010 residues

Total number of hits satisfying chosen parameters: 5991872

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : Published Applications NA:*

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13: /cgn2_6_ptodata/2/pubpna/US10_NIN_PUB.seq:*

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16: /cgn2_6_ptodata/2/pubpna/US10C_PUBCOMB.seq:*

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18: /cgn2_6_ptodata/2/pubpna/US10_NIN_PUB.seq:*

19: /cgn2_6_ptodata/2/pubpna/US10_PUBCOMB.seq:*

RESULT 1

US-10-024-579-4

; Sequence 4, Application US/10024579-4

; PUBLICATION NO. US20020119522A1

; GENERAL INFORMATION:

; APPLICANT: Fridgele, Carl, Johan

; INVENTOR: Fridgele, Carl, Johan

; ATTORNEY: Gethardt, Brenda

; ATTORNEY: Hilburn, Erin

; APPLICANT: Turner, C. Alexander Jr.

; TITLE OF INVENTION: No. 42075, A

; TITLE OF INVENTION: Human Ion Channel-Related Proteins and Polynucleotides Encoding the Same

; FILE REFERENCE: LEX-0274-USA

; CURRENT APPLICATION NUMBER: US/10/024-579-4

; CURRENT FILING DATE: 2001-12-18

; PRIOR APPLICATION NUMBER: US 60/258,595

; PRIOR FILING DATE: 2000-12-28

; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO: 4

; LENGTH: 363

; TYPE: DNA

; ORGANISM: homo sapiens

US-10-024-579-4

Summaries

Result No. Score Query Match Length DB ID Description

1 363 100.0 363 14 US-10-024-579-4 Sequence 4, Appli

2 353 100.0 680 14 US-10-024-579-8 Sequence 8, Appli

3 316.8 87.3 519 13 US-10-296-115-18 Sequence 18, Appli

4 316.8 87.3 1068 16 US-10-120-988-108 Sequence 40, Appli

5 316.8 87.3 2576 16 US-10-094-749-1045 Sequence 105, Appli

c 7 221.8 86.8 2154 15 US-10-086-156-23 Sequence 23, Appli

c 8 221.8 61.1 473 9 US-09-864-711-1385 Sequence 138, Appli

c 9 220.2 60.7 583 14 US-10-086-156-29 Sequence 29, Appli

c 10 172 47.4 321 14 US-10-024-579-6 Sequence 5, Appli

c 11 80 22.0 80 15 US-10-086-156-30 Sequence 1814, A

c 12 66.2 18.2 785 9 US-09-910-943-391 Sequence 30, Appli

c 13 61.8 17.0 484 10 US-09-918-995-12592 Sequence 391, App

c 14 61.8 17.0 692 10 US-09-764-891-8849 Sequence 9819, App

c 15 61.8 17.0 692 10 US-09-764-891-9850 Sequence 9850, App

c 16 61.8 17.0 692 10 US-09-764-891-9851 Sequence 9851, App

c 17 61.8 17.0 724 15 US-10-086-156-8 Sequence 8, Appli

c 18 61.8 17.0 719 15 US-10-029-386-2606 Sequence 22606, A

c 19 61.8 17.0 1014 13 US-10-296-115-653 Sequence 653, App

c 20 61.8 17.0 1109 13 US-10-302-172-672 Sequence 672, App

c 21 61.8 17.0 1839 15 US-10-086-156-1 Sequence 1, Appli

c 22 61.8 17.0 3101 15 US-10-198-846-12187 Sequence 12187, A

c 23 57.2 15.8 1788 15 US-10-168-651-31 Sequence 31, Appli

c 24 57 15.7 591 15 US-10-106-638-398 Sequence 398, App

c 25 57 15.7 592 9 US-09-925-299-10 Sequence 106, App

c 26 57 15.7 1696 15 US-10-095-299-106 Sequence 1, Appli

c 27 57 15.7 1696 15 US-10-264-171-1 Sequence 1, Appli

c 28 57 15.7 1710 15 US-10-101-510-376 Sequence 376, App

c 29 57 15.7 420 15 US-10-101-510-182 Sequence 182, App

c 30 56.4 15.5 388 15 US-10-101-510-607 Sequence 607, App

c 31 50.6 13.9 2677 16 US-10-094-749-625 Sequence 625, App

c 32 50.6 13.9 1751 15 US-10-121-745-23 Sequence 23, Appli

c 33 50 13.8 3512 9 US-09-969-347-190 Sequence 190, App

c 34 49.2 13.6 728 13 US-10-216-774-1285 Sequence 1285, App

c 35 49.2 13.6 2940 16 US-10-094-749-1206 Sequence 1206, App

c 36 48.4 13.3 1542 15 US-10-121-746-24 Sequence 24, Appli

c 37 48.4 13.3 1800 15 US-10-121-746-21 Sequence 21, Appli

c 38 48.4 13.3 1836 13 US-10-121-746-22 Sequence 22, Appli

c 39 48.4 13.3 40 13 US-10-095-783-A-42075 Sequence 42075, A

c 40 42.6 11.7 471 13 US-10-242-332-A-42075 Sequence 42075, A

c 41 42.6 11.7 471 16 US-10-094-720-1058 Sequence 1058, App

c 42 42.6 11.7 1450 16 US-10-117-722-1058 Sequence 1058, App

c 43 42.6 11.7 1450 16 US-10-117-722-1058 Sequence 11, Appli

c 44 42.6 11.7 1862 15 US-10-121-76-11 Sequence 1948, App

Alignments

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

=> s novel human proteins or NHPs
L1 586 NOVEL HUMAN PROTEINS OR NHPs

=> s 11 and (ion channel#)
L2 60 L1 AND (ION CHANNEL#)

=> duplicate remove
ENTER L# LIST OR (END):12
DUPLICATE PREFERENCE IS 'USPATFULL, PCTFULL'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L2
L3 60 DUPLICATE REMOVE L2 (0 DUPLICATES REMOVED)

=> d 1-60

L3 ANSWER 1 OF 60 USPATFULL on STN
AN 2004:63821 USPATFULL
TI Human proteins having transmembrane domains and cDNAs encoding these proteins
IN Kato, Seishi, Sagamihara-shi, JAPAN
Sekine, Shingo, Ageo-shi, JAPAN
PA Sagami Chemical Research Center, Sagamihara-shi, JAPAN (non-U.S. corporation)
Protegene, Inc., Tokyo, JAPAN (non-U.S. corporation)
PI US 2004048339 A1 20040311
AI US 2003-616942 A1 20030711 (10)
RLI Continuation of Ser. No. US 2000-529100, filed on 21 Aug 2000, ABANDONED
A 371 of International Ser. No. WO 1998-JP4474, filed on 5 Oct 1998,
UNKNOWN
PRAI JP 1997-276269 19971008
DT Utility
FS APPLICATION
LN.CNT 2285
INCL INCLM: 435/069.100
INCLS: 435/320.100; 435/325.000; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
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IC [7]
ICM: C07K014-705
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 60 USPATFULL on STN
AN 2004:45198 USPATFULL
TI Human proteins having hydrophobic domains and dnas encoding these proteins
IN Kato, Seishi, Sagamihara-shi, JAPAN
Kimura, Tomoko, Tsuchiura-shi, JAPAN
PI US 2004034192 A1 20040219
AI US 2002-169395 A1 20021129 (10)
WO 2000-JP9359 20001228
PRAI JP 2000-585 20000106
JP 2000-588 20000106
JP 2000-2299 20000111
JP 2000-26862 20000203
JP 2000-58367 20000303
DT Utility
FS APPLICATION
LN.CNT 11212
INCL INCLM: 530/350.000
INCLS: 536/023.500; 435/320.100; 435/325.000; 435/069.100; 530/388.100
NCL NCLM: 530/350.000
NCLS: 536/023.500; 435/320.100; 435/325.000; 435/069.100; 530/388.100
IC [7]

ICM: C07K014-435

ICS: C07K016-18; C12P021-02; C12N005-06; C07H021-04

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 60 USPATFULL on STN
AN 2004:32039 USPATFULL
TI **Novel human proteins**, polynucleotides
encoding them and methods of using the same
IN Gangolli, Esha A., Madison, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Gilbert, Jennifer, Madison, CT, UNITED STATES
Casman, Stacie, North Haven, CT, UNITED STATES
Blalock, Angela, Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Vernet, Corine, Branford, CT, UNITED STATES
Shenoy, Suresh, Branford, CT, UNITED STATES
Mishra, Vishnu S., Gainesville, FL, UNITED STATES
Furtak, Katarzyna, Ansonia, CT, UNITED STATES
Gerlach, Valerie L., Branford, CT, UNITED STATES
Edinger, Shlomit, New Haven, CT, UNITED STATES
Malyanker, Uriel, Branford, CT, UNITED STATES
Stone, David, Guilford, CT, UNITED STATES
Millet, Isabelle, Milford, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Gunther, Erik, Branford, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
PI US 2004024181 A1 20040205
AI US 2001-55569 A1 20011026 (10)
PRAI US 2000-243642P 20001026 (60)
US 2000-243320P 20001026 (60)
US 2000-243592P 20001026 (60)
US 2000-243681P 20001027 (60)
US 2000-243863P 20001027 (60)
US 2000-244443P 20001031 (60)
US 2000-245029P 20001101 (60)
US 2000-244995P 20001101 (60)
US 2000-245293P 20001102 (60)
US 2000-245315P 20001102 (60)
US 2000-245316P 20001102 (60)
US 2001-262994P 20010119 (60)
US 2001-269056P 20010215 (60)
US 2001-272923P 20010302 (60)
US 2001-276565P 20010315 (60)
US 2001-318119P 20010907 (60)
DT Utility
FS APPLICATION
LN.CNT 10785
INCL INCLM: 530/350.000
INCLS: 536/023.500; 435/069.100; 435/320.100; 435/325.000
NCL NCLM: 530/350.000
NCLS: 536/023.500; 435/069.100; 435/320.100; 435/325.000
IC [7]
ICM: C07K014-705
ICS: C12P021-02; C12N005-06; C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 60 USPATFULL on STN
AN 2003:334945 USPATFULL
TI **Novel Human proteins**, polynucleotides
encoding them and methods of using the same
IN Zerhusen, Bryan D., Branford, CT, UNITED STATES

Kekuda, Ramesh, Norwalk, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Miller, Charles E., Guilford, CT, UNITED STATES
Hjalt, Tord, Lomma, SWEDEN
Gerlach, Valerie, Branford, CT, UNITED STATES
Baumgartner, Jason C., New Haven, CT, UNITED STATES
Guo, Xiaojia (Sasha), Branford, CT, UNITED STATES
Gangolli, Esha A., Madison, CT, UNITED STATES
Vernet, Corine A. M., Branford, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Pena, Carol E. A., New Haven, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Edinger, Schlomit R., New Haven, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES

PI US 2003235821 A1 20031225
AI US 2002-161927 A1 20020603 (10)
PRAI US 2001-295661P 20010604 (60)
US 2001-295607P 20010604 (60)
US 2001-296404P 20010606 (60)
US 2001-296418P 20010606 (60)
US 2001-296575P 20010607 (60)
US 2001-297414P 20010611 (60)
US 2001-297567P 20010612 (60)
US 2001-298528P 20010615 (60)
US 2001-325685P 20010927 (60)
US 2001-299133P 20010618 (60)
US 2001-299230P 20010619 (60)
US 2001-299949P 20010621 (60)
US 2001-300177P 20010622 (60)
US 2001-318727P 20010912 (60)
US 2001-300883P 20010626 (60)
US 2002-358814P 20020222 (60)
US 2001-301530P 20010628 (60)
US 2001-301550P 20010628 (60)
US 2001-302951P 20010703 (60)
DT Utility
FS APPLICATION
LN.CNT 17643
INCL INCLM: 435/006.000
INCLS: 435/007.200; 435/069.100; 435/325.000; 435/252.300; 435/254.200;
435/320.100; 536/023.200; 435/183.000; 530/350.000; 435/348.000
NCL NCLM: 435/006.000
NCLS: 435/007.200; 435/069.100; 435/325.000; 435/252.300; 435/254.200;
435/320.100; 536/023.200; 435/183.000; 530/350.000; 435/348.000
IC [7]
ICM: C12Q001-68
ICS: G01N033-53; G01N033-567; C07H021-04; C12N009-00; C12P021-02;
C12N001-21; C07K014-47; C12N015-74; C12N001-18; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 60 USPATFULL on STN
AN 2003:324327 USPATFULL
TI **Novel human proteins**, polynucleotides
encoding them and methods of using the same
IN Li, Li, Branford, CT, UNITED STATES
Furtak, Katarzyna, Ansonia, CT, UNITED STATES
Perna, Amanda, Hamden, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Guo, Xiaojia Sasha, Branford, CT, UNITED STATES

Casman, Stacie J., North Haven, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Vernet, Corine A., Branford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Agee, Michele, Wallingford, CT, UNITED STATES
Rastelli, Luca, Guilford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Grosse, William M., Branford, CT, UNITED STATES
Alsobrook, John P., II, Madison, CT, UNITED STATES
Lepley, Denise M., Branford, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Peyman, John A., New Haven, CT, UNITED STATES
Gunther, Erik, Branford, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Gangolli, Esha A., Madison, CT, UNITED STATES

PI US 2003228301 A1 20031211
AI US 2001-4378 A1 20011024 (10)
PRAI US 2000-242882P 20001024 (60)
US 2000-242765P 20001024 (60)
US 2001-300206P 20010622 (60)
US 2000-242789P 20001024 (60)
US 2000-242768P 20001024 (60)
US 2000-242767P 20001024 (60)
US 2000-243622P 20001026 (60)
US 2001-273047P 20010302 (60)
US 2000-243591P 20001026 (60)
US 2000-243950P 20001027 (60)
US 2001-316509P 20010831 (60)
US 2000-243593P 20001026 (60)
US 2000-243502P 20001026 (60)

DT Utility
FS APPLICATION

LN.CNT 10092

INCL INCLM: 424/130.100
INCLS: 435/006.000; 435/183.000; 435/069.100; 435/320.100; 435/325.000;
530/350.000; 530/388.100; 536/023.200
NCL NCLM: 424/130.100
NCLS: 435/006.000; 435/183.000; 435/069.100; 435/320.100; 435/325.000;
530/350.000; 530/388.100; 536/023.200

IC [7]
ICM: C12Q001-68
ICS: C07H021-04; A61K039-395; C12P021-02; C12N005-06; C07K014-47;
C07K016-40

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 60 USPATFULL on STN
AN 2003:301031 USPATFULL
TI **Novel human proteins**, polynucleotides
encoding them and methods of using the same
IN Spytek, Kimberly A., New Haven, CT, UNITED STATES
Li, Li, Branford, CT, UNITED STATES
Edinger, Shlomit R., New Haven, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
Stone, David J., Guilford, CT, UNITED STATES
Malyankar, Uriel M., Branford, CT, UNITED STATES
Shimkets, Richard A., Guilford, CT, UNITED STATES
Guo, Xiaojia Sasha, Branford, CT, UNITED STATES
Anderson, David W., Branford, CT, UNITED STATES
Patturajan, Meera, Branford, CT, UNITED STATES

Berghs, Constance, New Haven, CT, UNITED STATES
Gerlach, Valerie, Branford, CT, UNITED STATES
Gusev, Vladimir Y., Madison, CT, UNITED STATES
Kekuda, Ramesh, Norwalk, CT, UNITED STATES
Gorman, Linda, Branford, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
Baumgartner, Jason C., New Haven, CT, UNITED STATES
Tchernev, Velizar T., Branford, CT, UNITED STATES
Vernet, Corine A.M., Branford, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
Shenoy, Suresh G., Branford, CT, UNITED STATES
Liu, Xiaohong, Lexington, MA, UNITED STATES
MacDoughall, John R., Hamden, CT, UNITED STATES

PI US 2003212257 A1 20031113
AI US 2002-115482 A1 20020402 (10)
PRAI US 2001-281086P 20010403 (60)
US 2001-281136P 20010403 (60)
US 2001-281863P 20010405 (60)
US 2001-281906P 20010405 (60)
US 2001-282934P 20010410 (60)
US 2001-283512P 20010412 (60)
US 2001-285325P 20010419 (60)
US 2001-285890P 20010423 (60)
US 2001-286068P 20010424 (60)
US 2001-286292P 20010425 (60)
US 2001-287213P 20010427 (60)
US 2001-288257P 20010502 (60)
US 2001-291134P 20010515 (60)
US 2001-282020P 20010406 (60)
US 2001-291725P 20010517 (60)
US 2001-294771P 20010531 (60)
US 2001-296965P 20010608 (60)
US 2001-299128P 20010618 (60)
US 2001-305063P 20010712 (60)
US 2001-332780P 20011114 (60)
US 2002-345221P 20020104 (60)

DT Utility
FS APPLICATION
LN.CNT 13310
INCL INCLM: 530/350.000
NCL NCLM: 530/350.000
IC [7]
ICM: C07K001-00
ICS: C07K014-00; C07K017-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 7 OF 60 USPATFULL on STN
AN 2003:134090 USPATFULL
TI HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE PROTEINS
IN KATO, SEISHI, KANAGAWA, JAPAN
SEKINE, SHINGO, SAITAMA, JAPAN
KIMURA, TOMOKO, KANAGAWA, JAPAN
KOBAYASHI, MIDORI, KANAGAWA, JAPAN
PI US 2003092175 A1 20030515
AI US 1999-284320 A1 19990621 (9)
WO 1997-JP4056 19971107
PRAI JP 1996-301429 19961113
DT Utility
FS APPLICATION
LN.CNT 5373
INCL INCLM: 435/365.100
INCLS: 536/023.500; 530/350.000; 435/069.100
NCL NCLM: 435/365.100

IC NCLS: 536/023.500; 530/350.000; 435/069.100
[7]
ICM: C12P021-06
ICS: C12N005-10; C12N005-06; C07K017-00; C07H021-04; C07K014-00;
C07K001-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 8 OF 60 USPATFULL on STN
AN 2003:127105 USPATFULL
TI Human NIM1 kinase
IN Bandman, Olga, Mountain View, CA, UNITED STATES
Molteni, Angela, Cantu, ITALY
Magnaghi, Paola, UNITED STATES
Bosotti, Roberta, Nerviano, ITALY
Scacheri, Emanuela, UNITED STATES
Isacchi, Antonella, UNITED STATES
Hodgson, David M., Ann Arbor, MI, UNITED STATES
PA Incyte Genomics, Inc., Palo Alto, CA (U.S. corporation)
PI US 2003087317 A1 20030508
AI US 2002-195101 A1 20020711 (10)
RLI Continuation-in-part of Ser. No. US 2000-523849, filed on 13 Mar 2000,
GRANTED, Pat. No. US 6458561
DT Utility
FS APPLICATION
LN.CNT 3635
INCL INCLM: 435/007.230
INCLS: 435/069.100; 435/194.000; 435/320.100; 435/325.000; 536/023.200
NCL NCLM: 435/007.230
NCLS: 435/069.100; 435/194.000; 435/320.100; 435/325.000; 536/023.200
IC [7]
ICM: G01N033-574
ICS: C07H021-04; C12N009-12; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 9 OF 60 USPATFULL on STN
AN 2003:106251 USPATFULL
TI Signal peptide-containing proteins
IN Lal, Preeti G., Santa Clara, CA, UNITED STATES
Au-Young, Janice, Brisbane, CA, UNITED STATES
Reddy, Roopa, Sunnyvale, CA, UNITED STATES
Murry, Lynn E., Fayetteville, AR, UNITED STATES
Mathur, Preete, Fremont, CA, UNITED STATES
PI US 2003073162 A1 20030417
AI US 2001-968433 A1 200111001 (9)
RLI Continuation-in-part of Ser. No. US 1999-271110, filed on 17 Mar 1999,
ABANDONED Continuation-in-part of Ser. No. US 1997-966316, filed on 7
Nov 1997, GRANTED, Pat. No. US 5932445
DT Utility
FS APPLICATION
LN.CNT 3950
INCL INCLM: 435/069.100
INCLS: 435/070.300; 435/183.000; 435/320.100; 435/325.000; 435/326.000;
530/350.000; 530/388.100; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/070.300; 435/183.000; 435/320.100; 435/325.000; 435/326.000;
530/350.000; 530/388.100; 536/023.500
IC [7]
ICM: C07K014-435
ICS: C12P021-02; C07H021-04; C12P021-04; C12N009-00; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 10 OF 60 USPATFULL on STN
AN 2003:93131 USPATFULL
TI Novel human ion channel proteins and polynucleotides

IN encoding the same
Walke, D. Wade, Spring, TX, UNITED STATES
Mathur, Brian, The Woodlands, TX, UNITED STATES
Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES
Friddle, Carl Johan, The Woodlands, TX, UNITED STATES
Gerhardt, Brenda, Spring, TX, UNITED STATES
PI US 2003064490 A1 20030403
AI US 2001-918359 A1 20010730 (9)
PRAI US 2000-221643P 20000728 (60)
US 2000-222503P 20000802 (60)
DT Utility
FS APPLICATION
LN.CNT 1283
INCL INCLM: 435/183.000
INCLS: 435/069.100; 435/006.000; 435/325.000; 435/320.100; 536/023.200
NCL NCLM: 435/183.000
NCLS: 435/069.100; 435/006.000; 435/325.000; 435/320.100; 536/023.200
IC [7]
ICM: C12N009-00
ICS: C12Q001-68; C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 11 OF 60 USPATFULL on STN
AN 2003:71945 USPATFULL
TI **Novel human proteins, polynucleotides**
encoding them and methods of using the same
IN Taupier, Raymond J., JR., New Haven, CT, UNITED STATES
Padigaru, Muralidhara, Branford, CT, UNITED STATES
Spytek, Kimberly A., New Haven, CT, UNITED STATES
Burgess, Catherine E., Wethersfield, CT, UNITED STATES
Vernet, Corine A.M., North Branford, CT, UNITED STATES
Fernandes, Elma R., Branford, CT, UNITED STATES
Shimkets, Richard A., West Haven, CT, UNITED STATES
Liu, Xiaohong, Branford, CT, UNITED STATES
Majumder, Kumud, Stamford, CT, UNITED STATES
Colman, Steven D., Guilford, CT, UNITED STATES
Zerhusen, Bryan D., Branford, CT, UNITED STATES
PI US 2003050232 A1 20030313
AI US 2001-839446 A1 20010419 (9)
PRAI US 2000-198293P 20000419 (60)
US 2000-198645P 20000420 (60)
US 2000-210809P 20000609 (60)
US 2000-199476P 20000425 (60)
US 2000-200025P 20000426 (60)
US 2000-224610P 20000811 (60)
US 2000-200024P 20000426 (60)
US 2000-199880P 20000426 (60)
US 2000-218591P 20000717 (60)
US 2001-271814P 20010227 (60)
DT Utility
FS APPLICATION
LN.CNT 6226
INCL INCLM: 514/012.000
INCLS: 536/023.200; 435/069.100; 435/189.000; 435/325.000; 435/320.100
NCL NCLM: 514/012.000
NCLS: 536/023.200; 435/069.100; 435/189.000; 435/325.000; 435/320.100
IC [7]
ICM: A61K038-17
ICS: C07H021-04; C12N009-02; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 12 OF 60 USPATFULL on STN
AN 2003:30282 USPATFULL
TI **Isolated human kinase proteins, nucleic acid molecules encoding human**

IN kinase proteins, and uses thereof
Yan, Chunhua, Boyd, MD, UNITED STATES
Ketchum, Karen A., Germantown, MD, UNITED STATES
Di Francesco, Valentina, Rockville, MD, UNITED STATES
Beasley, Ellen M., Darnestown, MD, UNITED STATES
PA APPLERA CORPORATION, Norwalk, CT, UNITED STATES, 06856-5435 (U.S.
corporation)
PI US 2003022229 A1 20030130
US 6730506 B2 20040504
AI US 2002-224562 A1 20020821 (10)
RLI Division of Ser. No. US 2001-801861, filed on 9 Mar 2001, PENDING
PRAI US 2001-265151P 20010131 (60)
DT Utility
FS APPLICATION
LN.CNT 3707
INCL INCLM: 435/006.000
INCLS: 435/069.100; 435/194.000; 435/320.100; 435/325.000; 536/023.200
NCL NCLM: 435/194.000
NCLS: 530/350.000; 435/006.000; 435/252.300; 435/320.100; 435/325.000
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C12N009-12; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 13 OF 60 USPATFULL on STN
AN 2002:337390 USPATFULL
TI Human polynucleotides, polypeptides, and antibodies
IN Moore, Paul A., Germantown, MD, UNITED STATES
Coleman, Timothy A., Gaithersburg, MD, UNITED STATES
Gentz, Reiner L., Rockville, MD, UNITED STATES
Dillon, Patrick J., Carlsbad, CA, UNITED STATES
Ni, Jian, Germantown, MD, UNITED STATES
Li, Yi, Sunnyvale, CA, UNITED STATES
Endress, Gregory A., Florence, MA, UNITED STATES
Soppet, Daniel R., Centreville, VA, UNITED STATES
PI US 2002192749 A1 20021219
AI US 2001-969384 A1 20011003 (9)
RLI Continuation-in-part of Ser. No. WO 2001-US10542, filed on 2 Apr 2001,
UNKNOWN
PRAI US 2000-194118P 20000403 (60)
US 2000-236384P 20000929 (60)
DT Utility
FS APPLICATION
LN.CNT 13925
INCL INCLM: 435/069.100
INCLS: 435/183.000; 435/325.000; 435/320.100; 530/350.000; 536/023.200
NCL NCLM: 435/069.100
NCLS: 435/183.000; 435/325.000; 435/320.100; 530/350.000; 536/023.200
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07H021-04; C12N009-00; C07K014-435
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 14 OF 60 USPATFULL on STN
AN 2002:287612 USPATFULL
TI Novel human ion channel protein and polynucleotides
encoding the same
IN Friddle, Carl Johan, The Woodlands, TX, UNITED STATES
Hilbun, Erin, Houston, TX, UNITED STATES
Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES
PI US 2002160475 A1 20021031
AI US 2001-16647 A1 20011210 (10)
PRAI US 2000-257932P 20001220 (60)
DT Utility

FS APPLICATION
LN.CNT 1081
INCL INCLM: 435/183.000
INCLS: 536/023.200
NCL NCLM: 435/183.000
NCLS: 536/023.200
IC [7]
ICM: C07H021-04
ICS: C12N009-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 15 OF 60 USPATFULL on STN
AN 2002:272888 USPATFULL
TI Human polynucleotides, polypeptides, and antibodies
IN Ni, Jian, Germantown, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
Ruben, Steven M., Olney, MD, UNITED STATES
PA Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)
PI US 2002151009 A1 20021017
AI US 2001-939825 A1 20010828 (9)
RLI Continuation-in-part of Ser. No. WO 2001-US5498, filed on 22 Feb 2001, UNKNOWN
PRAI US 2000-184664P 20000224 (60)
US 2000-189874P 20000316 (60)
DT Utility
FS APPLICATION
LN.CNT 14831
INCL INCLM: 435/183.000
INCLS: 435/006.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200
NCL NCLM: 435/183.000
NCLS: 435/006.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200
IC [7]
ICM: C12N009-00
ICS: C12Q001-68; C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 16 OF 60 USPATFULL on STN
AN 2002:258806 USPATFULL
TI Isolated human transporter proteins, nucleic acid molecules encoding human transporter proteins, and uses thereof
IN Merkulov, Gennady, Baltimore, MD, UNITED STATES
Guegler, Karl, Menlo Park, CA, UNITED STATES
Brandon, Rhonda C., Laytonsville, MD, UNITED STATES
Di Francesco, Valentina, Rockville, MD, UNITED STATES
Beasley, Ellen M., Darnestown, MD, UNITED STATES
PI US 2002142376 A1 20021003
AI US 2001-768781 A1 20010125 (9)
RLI Continuation-in-part of Ser. No. US 2000-740034, filed on 20 Dec 2000, ABANDONED
DT Utility
FS APPLICATION
LN.CNT 3248
INCL INCLM: 435/069.100
INCLS: 435/183.000; 435/325.000; 435/320.100; 530/350.000; 536/023.500
NCL NCLM: 435/069.100
NCLS: 435/183.000; 435/325.000; 435/320.100; 530/350.000; 536/023.500
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07K014-435; C07H021-04; C12N009-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 17 OF 60 USPATFULL on STN

AN 2002:228449 USPATFULL
TI Novel human **proteins**, polynucleotides
encoding them and methods of using the same
IN Gerlach, Valerie L., Branford, CT, UNITED STATES
Ellerman, Karen, Branford, CT, UNITED STATES
MacDougall, John R., Hamden, CT, UNITED STATES
Smithson, Glennda, Guilford, CT, UNITED STATES
PI US 2002123612 A1 20020905
AI US 2001-898570 A1 20010703 (9)
PRAI US 2000-198293P 20000419 (60)
US 2000-198645P 20000420 (60)
US 2000-210809P 20000609 (60)
US 2000-199476P 20000425 (60)
US 2000-200025P 20000426 (60)
US 2000-224610P 20000811 (60)
US 2000-200024P 20000426 (60)
US 2000-199880P 20000426 (60)
US 2000-218591P 20000717 (60)
US 2001-271814P 20010227 (60)
US 2000-215855P 20000703 (60)
DT Utility
FS APPLICATION
LN.CNT 7507
INCL INCLM: 530/350.000
INCLS: 435/069.100; 435/325.000; 435/320.100; 536/023.500
NCL NCLM: 530/350.000
NCLS: 435/069.100; 435/325.000; 435/320.100; 536/023.500
IC [7]
ICM: C07K014-435
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 18 OF 60 USPATFULL on STN
AN 2002:221403 USPATFULL
TI ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
KINASE PROTEINS, AND USES THEREOF
IN Yan, Chunhua, Boyds, MD, UNITED STATES
Ketchum, Karen A., Germantown, MD, UNITED STATES
Di Francesco, Valentina, Rockville, MD, UNITED STATES
Beasley, Ellen M., Darnestown, MD, UNITED STATES
PI US 2002119544 A1 20020829
US 6492154 B2 20021210
AI US 2001-801861 A1 20010309 (9)
PRAI US 2001-265151P 20010131 (60)
DT Utility
FS APPLICATION
LN.CNT 3706
INCL INCLM: 435/194.000
INCLS: 435/069.100; 435/320.100; 435/325.000; 536/023.200
NCL NCLM: 435/194.000
NCLS: 435/252.300; 435/320.100; 435/325.000; 536/023.200
IC [7]
ICM: C12N009-12
ICS: C07H021-04; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 19 OF 60 USPATFULL on STN
AN 2002:221399 USPATFULL
TI Novel human **ion channel** protein and polynucleotides
encoding the same
IN Friddle, Carl Johan, The Woodlands, TX, UNITED STATES
Hilbun, Erin, Houston, TX, UNITED STATES
Gerhardt, Brenda, Spring, TX, UNITED STATES
Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES

PI US 2002119540 A1 20020829
AI US 2001-974712 A1 20011010 (9)
PRAI US 2000-239623P 20001010 (60)
DT Utility
FS APPLICATION
LN.CNT 1086
INCL INCLM: 435/183.000
INCLS: 536/023.200
NCL NCLM: 435/183.000
NCLS: 536/023.200
IC [7]
ICM: C07H021-04
ICS: C12N009-00

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 20 OF 60 USPATFULL on STN
AN 2002:221382 USPATFULL
TI Novel human **ion channel**-related proteins and
polynucleotides encoding the same
IN Friddle, Carl Johan, The Woodlands, TX, UNITED STATES
Gerhardt, Brenda, Spring, TX, UNITED STATES
Hilbun, Erin, Houston, TX, UNITED STATES
Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES
PI US 2002119522 A1 20020829
AI US 2001-24579 A1 20011218 (10)
PRAI US 2000-258595P 20001228 (60)
DT Utility
FS APPLICATION
LN.CNT 1385
INCL INCLM: 435/069.100
INCLS: 536/023.200; 435/320.100; 435/325.000; 530/350.000
NCL NCLM: 435/069.100
NCLS: 536/023.200; 435/320.100; 435/325.000; 530/350.000
IC [7]
ICM: C12P021-02
ICS: C12N005-06; C07H021-04; C07K014-435

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 21 OF 60 USPATFULL on STN
AN 2002:206777 USPATFULL
TI Novel human **ion channel** protein and polynucleotides
encoding the same
IN Yu, Xuanchuan Sean, Houston, TX, UNITED STATES
Miranda, Maricar, Houston, TX, UNITED STATES
PI US 2002111478 A1 20020815
AI US 2001-34843 A1 20011227 (10)
PRAI US 2000-258334P 20001227 (60)
DT Utility
FS APPLICATION
LN.CNT 1085
INCL INCLM: 536/023.500
INCLS: 530/350.000
NCL NCLM: 536/023.500
NCLS: 530/350.000
IC [7]
ICM: C07H021-04
ICS: C07K014-435

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 22 OF 60 USPATFULL on STN
AN 2002:148637 USPATFULL
TI Novel human **ion channel** proteins and polynucleotides
encoding the same
IN Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES

Mathur, Daniel, Wooster, OH, UNITED STATES
Mathur, Brian, The Woodlands, TX, UNITED STATES
PI US 2002076780 A1 20020620
AI US 2001-930871 A1 20010814 (9)
PRAI US 2000-225989P 20000816 (60)
DT Utility
FS APPLICATION
LN.CNT 3707
INCL INCLM: 435/183.000
INCLS: 530/350.000; 536/023.200
NCL NCLM: 435/183.000
NCLS: 530/350.000; 536/023.200
IC [7]
ICM: C12N009-00
ICS: C07H021-04
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 23 OF 60 USPATFULL on STN
AN 2002:105903 USPATFULL
TI Human Sec6 vesicle transport protein
IN Labrie, Samuel T., St. Peters, MO, UNITED STATES
Streeter, David G., Boulder Creek, CA, UNITED STATES
PI US 2002055108 A1 20020509
AI US 2001-881852 A1 20010613 (9)
RLI Continuation-in-part of Ser. No. US 1999-349635, filed on 8 Jul 1999,
ABANDONED Continuation-in-part of Ser. No. US 1997-941262, filed on 30
Sep 1997, GRANTED, Pat. No. US 5989818
DT Utility
FS APPLICATION
LN.CNT 2378
INCL INCLM: 435/006.000
INCLS: 435/183.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200
NCL NCLM: 435/006.000
NCLS: 435/183.000; 435/069.100; 435/325.000; 435/320.100; 536/023.200
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; C12N009-00; C12P021-02; C12N005-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 24 OF 60 USPATFULL on STN
AN 2002:78847 USPATFULL
TI Novel human **ion channel** protein and polynucleotides
encoding the same
IN Hu, Yi, The Woodlands, TX, UNITED STATES
Kieke, James Alvin, Houston, TX, UNITED STATES
Turner, C. Alexander, JR., The Woodlands, TX, UNITED STATES
Nehls, Michael C., Stockdorf, GERMANY, FEDERAL REPUBLIC OF
Friedrich, Glenn, Houston, TX, UNITED STATES
Zambrowicz, Brian, The Woodlands, TX, UNITED STATES
Sands, Arthur T., The Woodlands, TX, UNITED STATES
PI US 2002042505 A1 20020411
AI US 2001-825147 A1 20010403 (9)
PRAI US 2000-194255P 20000403 (60)
DT Utility
FS APPLICATION
LN.CNT 1142
INCL INCLM: 536/023.200
INCLS: 435/183.000
NCL NCLM: 536/023.200
NCLS: 435/183.000
IC [7]
ICM: C07H021-04
ICS: C12N009-00
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 25 OF 60 USPATFULL on STN
AN 2002:346980 USPATFULL
TI cDNAs coding for human proteins having transmembrane domains
IN Kato, Seishi, Sagamihara, JAPAN
Sekine, Shingo, Ageo, JAPAN
PA Sagami Chemical Research Center, Kanagawa, JAPAN (non-U.S. corporation)
Protogene, Inc., Tokyo, JAPAN (non-U.S. corporation)
PI US 6500939 B1 20021231
WO 9918199 19990415
AI US 2000-529157 20000821 (9)
WO 1998-JP4447 19981002
20000821 PCT 371 date
PRAI JP 1997-276270 19971008
DT Utility
FS GRANTED
LN.CNT 1696
INCL INCLM: 536/023.100
INCLS: 435/325.000; 435/320.100; 435/366.000
NCL NCLM: 536/023.100
NCLS: 435/320.100; 435/325.000; 435/366.000
IC [7]
ICM: C07H021-02
ICS: C07H021-04; C12N001-00; C12N015-00; C12N005-08
EXF 435/325; 435/320.1; 435/366; 435/23.1; 536/23.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 26 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002098900 PCTFULL ED 20021218 EW 200250
TIEN NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES
ENCODING THEM AND METHODS OF USING THE SAME
TIFR NOUVELLES PROTEINES HUMAINES, POLYNUCLEOTIDES LES CODANT ET METHODES
D'UTILISATION ASSOCIEES
IN ZERHUSEN, Bryan, D., 337 Monticello Drive, Branford, CT 06405, US [US, US];
KEKUDA, Ramesh, 71 Aiken Street, Unit R3, Norwalk, CT 06851, US [IN, US];
SPYTEK, Kimberly, A., 28 Court Street, Number 1, New Haven, CT 06511, US [US, US];
SHENOY, Suresh, G., 15 Millwood Drive, Branford, CT 06405, US [IN, US];
MILLER, Charles, E., 98 Saddle Hill Drive, Guilford, CT 06437, US [US, US];
HJALT, Tord, 514 Main Street, Apartment 30, East Haven, CT 06512, US [SE, US];
GERLACH, Valerie, L., 18 Rock Pasture Road, Branford, CT 06405, US [US, US];
BAUMGARTNER, Jason, C., 1697 Quinnipiac Avenue, New Haven, CT 06513, US [US, US];
GUO, Xiaojia, 713 Robert Frost Drive, Branford, CT 06405, US [CN, US];
GANGOLLI, Esha, A., 31 Strawberry Hill Road, Madison, CT 06443, US [IN, US];
VERNET, Corine, A., M., Apartment L6, 1739 Foxon Road, Branford, CT 06471, US [FR, US];
PADIGARU, Muralidhara, 71 Hampton Park, Branford, CT 06405, US [IN, US];
LI, Li, 56 Jerimoth Drive, Branford, CT 06405, US [CN, US];
PENA, Carol, E., A., 604 Orange Street, Number 2, New Haven, CT 06511, US [US, US];
GORMAN, Linda, 329 Monticello Drive, Branford, CT 06405, US [US, US];
ANDERSON, David, W., 85 Montoya Drive, Branford, CT 06405, US [US, US];
EDINGER, Shlomit, R., 766 Edgewood Avenue, New Haven, CT 06515, US [US, US];
PATTURAJAN, Meera, Apartment 1C, 45 Harrison Avenue, Branford, CT 06405, US [IN, US];
STONE, David, J., 223 Whitehorn Drive, Guilford, CT 06437, US [US, US]

PA CURAGEN CORPORATION, 11th floor, 555 Long Wharf Drive, New Haven, CT 06511, US [US, US], for all designates States except US;
ZERHUSEN, Bryan, D., 337 Monticello Drive, Branford, CT 06405, US [US, US], for US only;
KEKUDA, Ramesh, 71 Aiken Street, Unit R3, Norwalk, CT 06851, US [IN, US], for US only;
SPYTEK, Kimberly, A., 28 Court Street, Number 1, New Haven, CT 06511, US [US, US], for US only;
SHENOY, Suresh, G., 15 Millwood Drive, Branford, CT 06405, US [IN, US], for US only;
MILLER, Charles, E., 98 Saddle Hill Drive, Guilford, CT 06437, US [US, US], for US only;
HJALT, Tord, 514 Main Street, Apartment 30, East Haven, CT 06512, US [SE, US], for US only;
GERLACH, Valerie, L., 18 Rock Pasture Road, Branford, CT 06405, US [US, US], for US only;
BAUMGARTNER, Jason, C., 1697 Quinnipiac Avenue, New Haven, CT 06513, US [US, US], for US only;
GUO, Xiaojia, 713 Robert Frost Drive, Branford, CT 06405, US [CN, US], for US only;
GANGOLLI, Esha, A., 31 Strawberry Hill Road, Madison, CT 06443, US [IN, US], for US only;
VERNET, Corine, A., M., Apartment L6, 1739 Foxon Road, Branford, CT 06471, US [FR, US], for US only;
PADIGARU, Muralidhara, 71 Hampton Park, Branford, CT 06405, US [IN, US], for US only;
LI, Li, 56 Jerimoth Drive, Branford, CT 06405, US [CN, US], for US only;
PENA, Carol, E., A., 604 Orange Street, Number 2, New Haven, CT 06511, US [US, US], for US only;
GORMAN, Linda, 329 Monticello Drive, Branford, CT 06405, US [US, US], for US only;
ANDERSON, David, W., 85 Montoya Drive, Branford, CT 06405, US [US, US], for US only;
EDINGER, Shlomit, R., 766 Edgewood Avenue, New Haven, CT 06515, US [US, US], for US only;
PATTURAJAN, Meera, Apartment 1C, 45 Harrison Avenue, Branford, CT 06405, US [IN, US], for US only;
STONE, David, J., 223 Whitehorn Drive, Guilford, CT 06437, US [US, US], for US only
AG ELRIFI, Ivor, R., Mintz, Levin, Cohn, Ferris, Glovsky, and Popeo, P., C., One Financial Center, Boston, MA 02111, US
LAF English
LA English
DT Patent
PI WO 2002098900 A2 20021212
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM
TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2002-US17558 A 20020604
PRAI US 2001-60/295,661 20010604
US 2001-60/295,607 20010604
US 2001-60/296,404 20010606
US 2001-60/296,418 20010606
US 2001-60/296,575 20010607
US 2001-60/297,414 20010611
US 2001-60/297,567 20010612
US 2001-60/298,528 20010615
US 2001-60/299,133 20010618

US 2001-60/299,230	20010619
US 2001-60/299,949	20010621
US 2001-60/300,177	20010622
US 2001-60/300,883	20010626
US 2001-60/301,550	20010628
US 2001-60/301,530	20010628
US 2001-60/302,951	20010703
US 2001-60/318,727	20010912
US 2001-60/325,685	20010927
US 2002-60/358,814	20020222
US 2002-10/161,927	20020603

L3 ANSWER 27 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002081629 PCTFULL ED 20021028 EW 200242
TIEN **NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES**
TIFR ENCODING THEM AND METHODS OF USING THE SAME
NOUVELLES PROTEINES HUMAINES, POLYNUCLEOTIDES CODANT CELLES-CI ET
PROCEDE D'UTILISATION DE CEUX-CI
IN SPYTEK, Kimberly, A., 28 Court Street, Number 1, New Haven, CT 06511, US [US, US];
LI, Li, 56 Jerimoth Road, Branford, CT 06405, US [CN, US];
EDINGER, Shlomit, R., 766 Edgewood Avenue, New Haven, CT 06515, US [US, US];
US];
ELLERMAN, Karen, 87 Montoya Drive, Branford, CT 06405, US [US, US];
STONE, David, J., 223 Whitethorn Drive, Guilford, CT 06437, US [US, US];
MALYANKAR, Uriel, M., 229 Branford Road, Number 330, Branford, CT 06405, US [IN, US];
SHIMKETS, Richard, A., 5 Indian Meadows Drive, Guilford, CT 06437, US [US, US];
GUO, Xiaojia, 713 Robert Frost Drive, Branford, CT 06405, US [CN, US];
ANDERSON, David, W., 85 Montoya Drive, Branford, CT 06405, US [US, US];
PATTURAJAN, Meera, 45 Harrison Avenue, Apartment 1C, Branford, CT 06405, US [IN, US];
BERGHS, Constance, 459 Orange Street, New Haven, CT 06511, US [NL, US];
GERLACH, Valerie, 18 Rock Pasture Road, Branford, CT 06405, US [US, US];
TAUPIER, Raymond, J., Jr., 34 Pardee Place Extension, East Haven, CT 06512, US [US, US];
PENA, Carol, E., A., 604 Orange Street, Number 2, New Haven, CT 06511, US [US, US];
PADIGARU, Muralidhara, 71 Hampton Park, Branford, CT 06405, US [IN, US];
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AG

LAF English
 LA English
 DT Patent
 PI WO 2002081629 A2 20021017
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
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 RW (EPO) : AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI) : BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 AI WO 2002-US10522 A 20020403
 PRAI US 2001-60/281,136 20010403
 US 2001-60/281,086 20010403
 US 2001-60/281,906 20010405
 US 2001-60/281,863 20010405
 US 2001-60/282,934 20010410
 US 2001-60/283,512 20010412
 US 2001-60/285,325 20010419
 US 2001-60/285,890 20010423
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 US 2001-60/282,020 20010515
 US 2001-60/291,725 20010517
 US 2001-60/294,771 20010531
 US 2001-60/296,965 20010608
 US 2001-60/299,128 20010618
 US 2001-60/305,063 20010712
 US 2001-60/332,780 20011114
 US 2002-60/345,221 20020104
 US 2002-unknown 20020402

 L3 ANSWER 28 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002072861 PCTFULL ED 20020927 EW 200238
 TIEN CD53 CELL SURFACE ANTIGEN
 TIFR ANTIGENE DE SURFACE CELLULAIRE CD53
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 LAF English
 LA English
 DT Patent
 PI WO 2002072861 A1 20020919
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM
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 RW (ARIPO) : GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
 RW (EAPO) : AM AZ BY KG KZ MD RU TJ TM
 RW (EPO) : AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI) : BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 AI WO 2002-US7054 A 20020307
 PRAI US 2001-09/803,478 20010308
 ICM C12P021-06

ICS C12P021-04 ; C07H021-04

L3 ANSWER 29 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002072831 PCTFULL ED 20020927 EW 200238

TIEN ISOLATED HUMAN TRANSPORTER PROTEINS, NUCLEIC ACID MOLECULES ENCODING
HUMAN TRANSPORTER PROTEINS, AND USES THEREOF

TIFR PROTEINES TRANSPORTEURS HUMAINES ISOLEES, MOLECULES D'ACIDES NUCLEIQUES
CODANT DES PROTEINES TRANSPORTEURS HUMAINES, ET UTILISATIONS ASSOCIEES

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LAF English

LA English

DT Patent

PI WO 2002072831 A2 20020919

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
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MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM
TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

AI WO 2002-US929 A 20020115

PRAI US 2001-09/768,781 20010125

ICM C12N015-12

ICS C07K014-705 ; C07K016-28 ; C12Q001-68 ; G01N033-68 ;
A01K067-027 ;
A61K039-395

L3 ANSWER 30 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002068626 PCTFULL ED 20020916 EW 200236

TIEN NOVEL HUMAN ION CHANNEL-RELATED PROTEINS AND
POLYNUCLEOTIDES ENCODING THE SAME

TIFR NOUVELLES PROTEINES HUMAINES LIEES AU CANAL IONIQUE ET POLYNUCLEOTIDES
CODANT POUR CES PROTEINES

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LAF English

LA English

DT Patent

PI WO 2002068626 A2 20020906

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
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AI WO 2001-US49197 A 20011218
PRAI US 2000-60/258,595 20001228
ICM C12N015-00

L3 ANSWER 31 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002061060 PCTFULL ED 20020815 EW 200232
TIEN ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
KINASE PROTEINS, AND USES THEREOF
TIFR PROTEINES KINASES HUMAINES ISOLEES, MOLECULE D'ACIDE NUCLEIQUE CODANT
CES PROTEINES KINASES HUMAINES ET LEURS UTILISATIONS
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LAF English
LA English
DT Patent
PI WO 2002061060 A2 20020808
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
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RW (ARIPO) : GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
RW (EAPO) : AM AZ BY KG KZ MD RU TJ TM
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AI WO 2002-US1106 A 20020117
PRAI US 2001-60/265,151 20010131
US 2001-09/801,861 20010309
ICM C12N009-00

L3 ANSWER 32 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002060945 PCTFULL ED 20020815 EW 200232
TIEN NOVEL HUMAN ION CHANNEL PROTEIN AND POLYNUCLEOTIDES
ENCODING THE SAME
TIFR NOUVELLE PROTEINE HUMAINE DE CANAUX IONIQUES ET POLYPEPTIDES LA CODANT
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LA English
DT Patent
PI WO 2002060945 A2 20020808
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
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MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW
RW (ARIPO) : GH GM KE LS MW MZ SD SL SZ TZ UG ZW
RW (EAPO) : AM AZ BY KG KZ MD RU TJ TM
RW (EPO) : AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2001-US49488 A 20011227
PRAI US 2000-60/258, 334 20001227
ICM C07K014-47

L3 ANSWER 33 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002055702 PCTFULL ED 20020725 EW 200229
TIEN **NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES**
TIFR ENCODING THEM AND METHODS OF USING THE SAME
PROTEINES HUMAINES, POLYNUCLEOTIDES LES CODANT ET PROCEDES D'UTILISATION
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FURTAK, Katarzyna, 31 Park Place, Ansonia, CT 06401, US [PL, US], for US only;
GERLACH, Valerie, 18 Rock Pasture Road, Branford, CT 06405, US [US, US], for US only;
EDINGER, Shlomit, 766 Edgewood Avenue, New Haven, CT 06515, US [US, US], for US only;
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US], for US only;
 STONE, David, 223 Whitethorn Drive, Guilford, CT 06437, US [US, US], for US only;
 MILLET, Isabelle, 74 Carrington Avenue, Milford, CT 06460, US [FR, US], for US only;
 SMITHSON, Glennda, 125 Michael Drive, Guilford, CT 06435, US [US, US], for US only;
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 PADIGARU, Muralidhara, 71 Hampton Park, Branford, CT 06405, US [IN, US], for US only;
 TAUPIER, Raymond, J., Jr., 34 Pardee Place Extension, East Haven, CT 06512, US [US, US], for US only;
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AG ELRIFI, Ivor, R., Mintz, Levin, Cohn, Ferris, Glovsky & Popeo, P.C ., One Financial Center, Boston, MA 02111, US

LAF English

LA English

DT Patent

PI WO 2002055702 A2 20020718

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

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AI WO 2001-US50925 A 20011026

PRAI US 2000-60/243,642 20001026

US 2000-60/243,320 20001026

US 2000-60/243,592 20001026

US 2000-60/243,681 20001027

US 2000-60/243,863 20001027

US 2000-60/244,443 20001031

US 2000-60/245,029 20001101

US 2000-60/244,995 20001101

US 2000-60/245,293 20001102

US 2000-60/245,315 20001102

US 2000-60/245,316 20001102

US 2001-60/262,994 20010119

US 2001-60/269,056 20010215

US 2001-60/272,923 20010302

US 2001-60/276,565 20010315

US 2001-60/318,119 20010907

ICM C12N015-12

ICS C07K014-47 ; C07K016-18 ; G01N033-53 ; C12Q001-68 ;
 G01N033-50 ;
 A61K039-395 ; A61K031-7088 ; A61K038-17

L3 ANSWER 34 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002050271 PCTFULL ED 20020709 EW 200226

TIEN NOVEL HUMAN ION CHANNEL PROTEIN AND POLYNUCLEOTIDES
 ENCODING THE SAME

TIFR NOUVELLE PROTEINE CANAL HUMAINE ET POLYNUCLEOTIDES CODANT POUR ELLE

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LAF English
LA English
DT Patent
PI WO 2002050271 A2 20020627
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
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AI WO 2001-US48050 A 20011210
PRAI US 2000-60/257,932 20001220
ICM C12N015-12
ICS C07K014-47

L3 ANSWER 35 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2002046408 PCTFULL ED 20020624 EW 200224
TIEN NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES
ENCODING THEM AND METHODS OF USING THE SAME
TIFR NOUVELLES PROTEINES HUMAINES, POLYNUCLEOTIDES LES CODANT ET PROCEDES
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IN LI, Li, 56 Jerimoth Drive, Branford, CT 06405, US [CN, US];
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BURGESS, Catherine, E., 90 Carriage Hill Drive, Wethersfield, CT 06109, US [US, US];
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GANGOLLI, Esha, A., 383 Walden Green, Branford, CT 06405, US [IN, US]
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06511, US [US, US], for all designates States except US;
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PATTURAJAN, Meera, 45 Harrison Avenue, Apartment 1C, Branford, CT 06405, US [IN, US], for US only;
SHIMKETS, Richard, A., 191 Leete Street, West Haven, CT 06516, US [US, US], for US only;
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CASMAN, Stacie, J., 17 Peck Street, North Haven, CT 06473, US [US, US], for US only;
BURGESS, Catherine, E., 90 Carriage Hill Drive, Wethersfield, CT 06109, US [US, US], for US only;
MALYANKAR, Uriel, M., 35 Averill Place, Branford, CT 06405, US [IN, US], for US only;
TCHERNEV, Velizar, T., 45 Jefferson Road, #3-12, Branford, CT 06405, US [BG, US], for US only;
VERNET, Corine, A., M., 1739 Foxon Road, North Branford, CT 06471, US [FR, US], for US only;
SPYTEK, Kimberly, A., 28 Court Street, #1, New Haven, CT 06511, US [US, US], for US only;
AGEE, Michele, 107 Knollwood Road, Wallingford, CT 06492, US [US, US], for US only;
RASTELLI, Luca, 52 Pepperbush Lane, Guilford, CT 06437, US [IT, US], for US only;
SHENOY, Suresh, G., 15 Millwood Drive, Branford, CT 06405, US [IN, US], for US only;
GROSSE, William, M., 15 Rice Terrace Road, Apartment C, Branford, CT 06405, US [US, US], for US only;
ALSOBROOK, John, P., II, 60 Lake Drive, Madison, CT 06443, US [US, US], for US only;
LEPLEY, Denise, M., 51 Church Street, Branford, CT 06405, US [US, US], for US only;
GERLACH, Valerie, 18 Rock Pasture Road, Branford, CT 06405, US [US, US], for US only;
EDINGER, Shlomit, 555 Long Wharf Drive, 11th Floor, New Haven, CT 06511, US [US, US], for US only;
MACDOUGALL, John, R., 117 Russell Street, Hamden, CT 06517, US [CA, US], for US only;
PEYMAN, John, A., 336 West Rock Avenue, New Haven, CT 06515, US [US, US], for US only;
GUNTHER, Erik, 555 Long Wharf Drive, 11th Floor, New Haven, CT 06511, US [US, US], for US only;
STONE, David, J., 223 Whitehorn Drive, Guilford, CT 06437, US [US, US], for US only;
ELLERMAN, Karen, 87 Montoya Drive, Branford, CT 06405, US [US, US], for US only;
GANGOLLI, Esha, A., 383 Walden Green, Branford, CT 06405, US [IN, US], for US only

AG ELRIFI, Ivor, R., Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., One Financial Center, Boston, MA 02111, US

LAF English

LA English

DT Patent

PI WO 2002046408 A2 20020613

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG US UZ VN YU ZA ZW

RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW

RW (EAPO) : AM AZ BY KG KZ MD RU TJ TM
 RW (EPO) : AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI) : BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 AI WO 2001-US46057 A 20011024
 PRAI US 2000-60/242,882 20001024
 US 2000-60/242,765 20001024
 US 2000-60/242,768 20001024
 US 2000-60/242,789 20001024
 US 2000-60/242,767 20001024
 US 2000-60/243,502 20001026
 US 2000-60/243,622 20001026
 US 2000-60/243,593 20001026
 US 2000-60/243,591 20001026
 US 2000-60/243,950 20001027
 US 2001-60/273,047 20010302
 US 2001-60/300,206 20010622
 US 2001-60/316,509 20010831

ICM C12N015-12
 ICS C12N005-10 ; C07K014-47 ; C07K016-18 ; C12Q001-68 ;
 G01N033-577 ;
 G01N033-68 ; A61K038-12 ; A61K039-395

L3 ANSWER 36 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002031150 PCTFULL ED 20020515 EW 200216
 TIEN NOVEL HUMAN **ION CHANNEL** PROTEIN AND POLYNUCLEOTIDES
 ENCODING THE SAME

TIFR NOUVELLE PROTEINE HUMAINE A CANAL IONIQUE ET POLYNUCLEOTIDES CODANT POUR
 CELLE-CI

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LAF English
 LA English
 DT Patent

PI WO 2002031150 A2 20020418

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
 TT TZ UA UG UZ VN YU ZA ZW

RW (ARIPO) : GH GM KE LS MW MZ SD SL SZ TZ UG ZW
 RW (EAPO) : AM AZ BY KG KZ MD RU TJ TM
 RW (EPO) : AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI) : BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

AI WO 2001-US31900 A 20011010
 PRAI US 2000-60/239,623 20001010

ICM C12N015-12
 ICS C07K014-705 ; C12Q001-68 ; C07K016-28 ; C12N015-62 ;
 G01N033-68 ;
 A61K038-00 ; A61K048-00 ; A61K031-7088

L3 ANSWER 37 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002014498 PCTFULL ED 20020711 EW 200208
 TIEN NOVEL HUMAN **ION CHANNEL** PROTEINS AND POLYNUCLEOTIDES
 ENCODING THE SAME

TIFR NOUVELLES PROTEINES HUMAINES DE CANAL IONIQUE ET POLYNUCLEOTIDES CODANT
 POUR CELLES-CI

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 Woodlands, TX 77381, US [US, US]
 AG ISHIMOTO, Lance, K., Lexicon Genetics Incorporated, 4000 Research Forest
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 LAF English
 LA English
 DT Patent
 PI WO 2002014498 A2 20020221
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
 TZ UA UG UZ VN YU ZA ZW
 RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW
 RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
 RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
 AI WO 2001-US25650 A 20010815
 PRAI US 2000-60/225,989 20000816
 ICM C12N015-00

 L3 ANSWER 38 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002010389 PCTFULL ED 20020814
 TIEN NOVEL HUMAN ION CHANNEL PROTEINS AND POLYNUCLEOTIDES
 ENCODING THE SAME
 TIFR NOUVELLES PROTEINES DU CANAL IONIQUE HUMAIN ET POLYNUCLEOTIDES CODANT
 CES DERNIERES
 IN WALKE, D., Wade;
 MATHUR, Brian;
 TURNER, C., Alexander, Jr.;
 FRIDDLE, Carl, Johan;
 GERHARDT, Brenda
 PA LEXICON GENETICS INCORPORATED
 DT Patent
 PI WO 2002010389 A2 20020207
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
 MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
 TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
 ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
 GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GQ
 GW ML MR NE SN TD TG
 AI WO 2001-US23827 A 20010730
 PRAI US 2000-60/221,643 20000728
 US 2000-60/222,503 20000802
 ICM C12N015-12
 ICS C07K014-705 ; C12Q001-68

 L3 ANSWER 39 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2002007751 PCTFULL ED 20020814
 TIEN IDENTIFICATION AND ISOLATION OF NOVEL POLYPEPTIDES HAVING PDZ DOMAINS
 AND METHODS OF USING SAME
 TIFR IDENTIFICATION ET ISOLEMENT DE NOUVEAUX POLYPEPTIDES COMPORTANT DES
 DOMAINES PDZ ET LEURS METHODES D'UTILISATION
 IN HERRERO, Juan;
 PIROZZI, Gregorio;
 UVEGES, Albert
 PA AXCELL BIOSCIENCES CORPORATION
 DT Patent

PI WO 2002007751 A1 20020131
 DS W: AU CA JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
 NL PT SE TR
 AI WO 2001-US23269 A 20010724
 PRAI US 2000-60/221,215 20000725
 US 2000-09/723,810 20001128
 ICM A61K038-06
 ICS A61K038-16 ; C07K014-00 ; C12Q001-68 ; C12N005-10 ;
 G01N033-48 ;
 G01N033-53

 L3 ANSWER 40 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2001079294 PCTFULL ED 20020826
 TIEN NOVEL HUMAN PROTEINS, POLYNUCLEOTIDES
 ENCODING THEM AND METHODS OF USING THE SAME
 TIFR NOUVELLES PROTEINES HUMAINES, POLYNUCLEOTIDES LES CODANT ET PROCEDES
 PERMETTANT DE LES UTILISER
 IN TAUPIER, Raymond, J., Jr.;
 VERNET, Corine, A., M.;
 FERNANDES, Elma;
 SHIMKETS, Richard, A.;
 MAJUMDER, Kumud;
 PADIGARU, Muralidhara;
 COLMAN, Steven, D.;
 ZERHUSEN, Bryan, D.;
 SPYTEK, Kimberly, A.;
 BURGESS, Catherine, E.;
 LIU, Xiaohong
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 TAUPIER, Raymond, J., Jr.;
 VERNET, Corine, A., M.;
 FERNANDES, Elma;
 SHIMKETS, Richard, A.;
 MAJUMDER, Kumud;
 PADIGARU, Muralidhara;
 COLMAN, Steven, D.;
 ZERHUSEN, Bryan, D.;
 SPYTEK, Kimberly, A.;
 BURGESS, Catherine, E.;
 LIU, Xiaohong
 DT Patent
 PI WO 2001079294 A2 20011025
 DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
 CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
 JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW
 MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ
 UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
 ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
 GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW
 ML MR NE SN TD TG
 AI WO 2001-US12854 A 20010419
 PRAI US 2000-60/198,293 20000419
 US 2000-60/198,645 20000420
 US 2000-60/199,476 20000425
 US 2000-60/199,880 20000426
 US 2000-60/200,024 20000426
 US 2000-60/200,025 20000426
 US 2000-60/210,809 20000609
 US 2000-60/218,591 20000717
 US 2000-60/224,610 20000811
 US 2001-60/267,673 20010209
 US 2001-60/271,814 20010227
 ICM C07K014-705

L3 ANSWER 41 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001075108 PCTFULL ED 20020822
TIEN HUMAN ION CHANNEL PROTEIN AND POLYNUCLEOTIDES
ENCODING THE SAME
TIFR PROTEINE HUMAINE DU CANAL IONIQUE ET POLYNUCLEOTIDES LA CODANT
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NEHLS, Michael, C.;
FRIEDRICH, Glenn;
ZAMBROWICZ, Brian;
SANDS, Arthur, T.
PA LEXICON GENETICS INCORPORATED
DT Patent
PI WO 2001075108 A1 20011011
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
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MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM
AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR
IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML MR
NE SN TD TG
AI WO 2001-US10875 A 20010403
PRAI US 2000-60/194, 255 20000403
ICM C12N015-12
ICS C07K014-705

L3 ANSWER 42 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001074896 PCTFULL ED 20020822
TIEN HUMAN POLYNUCLEOTIDES, POLYPEPTIDES, AND ANTIBODIES
TIFR POLYNUCLEOTIDES, POLYPEPTIDES ET ANTICORPS HUMAINS
IN MOORE, Paul, A.;
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DILLON, Patrick, J.
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SOPPET, Daniel, R.;
COLEMAN, Timothy, A.;
GENTZ, Reiner, L.;
ENDRESS, Gregory, A.;
LI, Yi;
DILLON, Patrick, J.
DT Patent
PI WO 2001074896 A1 20011011
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW
MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ
UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG
ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR
GB GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW
ML MR NE SN TD TG
AI WO 2001-US10542 A 20010402
PRAI US 2000-60/194, 118 20000403
US 2000-60/236, 384 20000929
ICM C07K014-47
ICS C12N005-10 ; C12N005-16 ; C12N015-12 ; C12N015-63 ;

C12N015-64

L3 ANSWER 43 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001062789 PCTFULL ED 20020822
TIEN HUMAN POLYNUCLEOTIDES, POLYPEPTIDES, AND ANTIBODIES
TIFR POLYNUCLEOTIDES, POLYPEPTIDES ET ANTICORPS HUMAINS
IN NI, Jian;
SHI, Yanggu;
EBNER, Reinhard;
CHOI, Gil, H.;
RUBEN, Steven, M.
PA HUMAN GENOME SCIENCES, INC.;
NI, Jian;
SHI, Yanggu;
EBNER, Reinhard;
CHOI, Gil, H.;
RUBEN, Steven, M.
DT Patent
PI WO 2001062789 A1 20010830
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX
MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW
AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB
GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML
MR NE SN TD TG
AI WO 2001-US5498 A 20010222
PRAI US 2000-60/184,664 20000224
US 2000-60/189,874 20000316
ICM C07K014-47
ICS C12N005-10 ; C12N005-16 ; C12N015-12 ; C12N015-63 ;
C12N015-64

L3 ANSWER 44 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001053343 PCTFULL ED 20020827
TIEN HUMAN POLYNUCLEOTIDES, POLYPEPTIDES, AND ANTIBODIES
TIFR POLYNUCLEOTIDES, POLYPEPTIDES ET ANTICORPS HUMAINS
IN RUBEN, Steven, M.;
SHI, Yanggu
PA HUMAN GENOME SCIENCES, INC.;
RUBEN, Steven, M.;
SHI, Yanggu
DT Patent
PI WO 2001053343 A1 20010726
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
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MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW
AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB
GR IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML
MR NE SN TD TG
AI WO 2001-US1436 A 20010117
PRAI US 2000-60/176,307 20000118
ICM C07K014-47
ICS C12N005-10 ; C12N015-12 ; C12N015-1 ; C12N015-19 ;
C12N015-63 ;
C12N015-64

L3 ANSWER 45 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001049728 PCTFULL ED 20020827
TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE
PROTEINS

TIFR PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADN CODANT CES PROTEINES
IN KATO, Seishi;
KIMURA, Tomoko
PA PROTEGENE INC.;
SAGAMI CHEMICAL RESEARCH CENTER;
KATO, Seishi;
KIMURA, Tomoko
DT Patent
PI WO 2001049728 A2 20010712
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
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NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG
US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM
AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR
IE IT LU MC NL PT SE TR BF BJ CF CG CI CM GA GN GW ML MR
NE SN TD TG

AI WO 2000-JP9359 A 20001228
PRAI JP 2000-2000-585 20000106
JP 2000-2000-588 20000106
JP 2000-2000-2299 20000111
JP 2000-2000-26862 20000203
JP 2000-2000-58367 20000303

ICM C12N015-12
ICS C07K014-47 ; C07K016-18

L3 ANSWER 46 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001012660 PCTFULL ED 20020828
TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE
PROTEINS

TIFR PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADN CODANT POUR CES
PROTEINES

IN KATO, Seishi;
KIMURA, Tomoko
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko

DT Patent
PI WO 2001012660 A2 20010222

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
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NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG
US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM
AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR
IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE
SN TD TG

AI WO 2000-JP5356 A 20000810
PRAI JP 1999-11/230344 19990817
JP 1999-11/252551 19990907
JP 1999-11/281132 19991001
JP 1999-11/301624 19991022
JP 1999-11/313877 19991104

ICM C07K014-00

L3 ANSWER 47 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001002563 PCTFULL ED 20020828
TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE
PROTEINS
TIFR PROTEINES HUMAINES AYANT DES DOMAINES HYDROPHOBES ET ADN CODANT POUR CES
PROTEINES
IN KATO, Seishi;
KIMURA, Tomoko

PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko

DT Patent

PI WO 2001002563 A2 20010111

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
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NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US
UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ
BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE
IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

AI WO 2000-JP3943 A 20000616
PRAI JP 1999-11/188835 19990702
ICM C12N015-12
ICS C07K014-705 ; C07K014-47 ; C07K016-18 ; C07K016-28

L3 ANSWER 48 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2001000824 PCTFULL ED 20020828

TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE PROTEINS

TIFR PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADNs LES CODANT
IN KATO, Seishi;
KIMURA, Tomoko

PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko

DT Patent

PI WO 2001000824 A2 20010104

DS W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO
NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US
UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ
BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE
IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN
TD TG

AI WO 2000-JP3944 A 20000616
PRAI JP 1999-11/178065 19990624
ICM C12N015-12
ICS C07K014-705 ; C07K014-47 ; C07K016-18 ; C07K016-28

L3 ANSWER 49 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2000056751 PCTFULL ED 20020515

TIEN 50 HUMAN SECRETED PROTEINS

TIFR CINQUANTE PROTEINES HUMAINES SECRETEES
IN ROSEN, Craig, A.;
RUBEN, Steven, M.;
KOMATSOULIS, George

PA HUMAN GENOME SCIENCES, INC.;
ROSEN, Craig, A.;
RUBEN, Steven, M.;
KOMATSOULIS, George

LA English

DT Patent

PI WO 2000056751 A1 20000928

DS W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS
MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH

CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
 CI CM GA GN GW ML MR NE SN TD TG

AI WO 2000-US6013 A 20000309
 PRAI US 1999-60/125,360 19990319
 US 1999-60/138,626 19990611
 US 1999-60/168,662 19991203

ICM C07H021-04
 ICS C07K014-00 ; C07K016-00 ; C12N015-00 ; C12N015-63 ;
 C12N015-85 ;
 C12N015-86 ; C12Q001-68 ; G01N033-53

L3 ANSWER 50 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2000029448 PCTFULL ED 20020515
 TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAS ENCODING THESE PROTEINS
 TIFR PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADN CODANT POUR CES PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 KIMURA, Tomoko
 LA English
 DT Patent
 PI WO 2000029448 A2 20000525
 DS W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
 DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR
 KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT
 RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU
 ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD
 RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL
 PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

AI WO 1999-JP6412 A 19991117
 PRAI JP 1998-10/326255 19981117
 JP 1998-10/364315 19981222
 JP 1999-11/69811 19990316
 JP 1999-11/119299 19990427
 JP 1999-11/138169 19990519

ICM C07R014-705
 ICS C12N015-12

L3 ANSWER 51 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
 AN 2000005367 PCTFULL ED 20020515
 TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAS ENCODING THESE PROTEINS
 TIFR PROTEINES HUMAINES A DOMAINES HYDROPHOBES ET ADN CODANT POUR CES PROTEINES
 IN KATO, Seishi;
 KIMURA, Tomoko
 PA SAGAMI CHEMICAL RESEARCH CENTER;
 PROTEGENE INC.;
 KATO, Seishi;
 KIMURA, Tomoko
 LA English
 DT Patent
 PI WO 2000005367 A2 20000203
 DS W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
 ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC
 LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD
 SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZA ZW GH GM
 KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE
 CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF
 CG CI CM GA GN GW ML MR NE SN TD TG

AI WO 1999-JP3929 A 19990722
PRAI JP 1998-10/208820 19980724
JP 1998-10/224105 19980807
JP 1998-10/238116 19980825
JP 1998-10/254736 19980909
JP 1998-10/275505 19980929
ICM C12N015-12
ICS C07K014-705 ; C12N005-10

L3 ANSWER 52 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 2000000506 PCTFULL ED 20020515
TIEN HUMAN PROTEINS HAVING HYDROPHOBIC DOMAINS AND DNAs ENCODING THESE PROTEINS
TIFR PROTEINES HUMAINES POSSEDANT DES DOMAINES HYDROPHOBES ET ADN CODANT CES PROTEINES
IN KATO, Seishi;
KIMURA, Tomoko
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko
LA English
DT Patent
PI WO 2000000506 A2 20000106
DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE
AI WO 1999-JP3242 A 19990618
PRAI JP 1998-10/180008 19980626
ICM C12N015-12
ICS C07K014-705 ; C12N005-10

L3 ANSWER 53 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 1999055862 PCTFULL ED 20020515
TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE PROTEINS
TIFR PROTEINES HUMAINES COMPORTANT DES DOMAINES TRANSMEMBRANAIRES ET SEQUENCES D'ADN CODANT CES PROTEINES
IN KATO, Seishi;
KIMURA, Tomoko
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko
LA English
DT Patent
PI WO 9955862 A2 19991104
DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE
AI WO 1999-JP2226 A 19990427
PRAI JP 1998-10/119395 19980428
ICM C12N015-12
ICS C07K014-47 ; C12N005-10

L3 ANSWER 54 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 1999043802 PCTFULL ED 20020515
TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE PROTEINS
TIFR PROTEINES HUMAINES POSSEDANT DES DOMAINES TRANSMEMBRANAIRES ET ADN CODANT CES PROTEINES
IN KATO, Seishi;
SEKINE, Shingo;
KIMURA, Tomoko;
NAKAMURA, Nobuko
PA SAGAMI CHEMICAL RESEARCH CENTER;

PROTEGENE INC.;
KATO, Seishi;
SEKINE, Shingo;
KIMURA, Tomoko;
NAKAMURA, Nobuko

LA English
DT Patent
PI WO 9943802 A2 19990902
DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

AI WO 1999-JP875 A 19990225
PRAI JP 1998-10/46607 19980227
ICM C12N015-12
ICS C12N005-10 ; C07K014-705

L3 ANSWER 55 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 1999027094 PCTFULL ED 20020515
TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE PROTEINS
TIFR PROTEINES HUMAINES PRESENTANT DES DOMAINES MEMBRANAIRES ET ADN CODANT CES PROTEINES
IN KATO, Seishi;
KIMURA, Tomoko;
SEKINE, Shingo
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko;
SEKINE, Shingo

LA English
DT Patent
PI WO 9927094 A2 19990603
DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

AI WO 1998-JP5238 A 19981120
PRAI JP 1997-9/323129 19971125
ICM C12N015-12
ICS C07K014-47 ; C12N015-85 ; C12N005-10

L3 ANSWER 56 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 1999018203 PCTFULL ED 20020515
TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND cDNAs ENCODING THESE PROTEINS
TIFR PROTEINES HUMAINES COMPORTANT DES DOMAINES TRANSMEMBRANAIRES ET ADN CODANT CES PROTEINES
IN KATO, Seishi;
KIMURA, Tomoko;
SEKINE, Shingo;
KOBAYASHI, Midori
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
KIMURA, Tomoko;
SEKINE, Shingo;
KOBAYASHI, Midori

LA English
DT Patent
PI WO 9918203 A2 19990415
DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

AI WO 1998-JP4475 A 19981005
PRAI JP 1997-9/276271 19971008
ICM C12N015-12
ICS C07K014-47 ; C12N015-79 ; C12N005-10

L3 ANSWER 57 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 1999018202 PCTFULL ED 20020515
TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND cDNAs ENCODING THESE
PROTEINS
TIFR PROTEINES HUMAINES COMPORTANT DES DOMAINES TRANSMEMBRANAIRES ET ADN
CODANT CES PROTEINES
IN KATO, Seishi;
SEKINE, Shingo
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
SEKINE, Shingo
LA English
DT Patent
PI WO 9918202 A2 19990415
DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE
AI WO 1998-JP4474 A 19981005
PRAI JP 1997-9/276269 19971008
ICM C12N015-12
ICS C07K014-705 ; C12N005-10

L3 ANSWER 58 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 1999018199 PCTFULL ED 20020515
TIEN cDNAs CODING FOR HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS
TIFR ADNc CODANT POUR DES PROTEINES HUMAINES POSSEDDANT DES DOMAINES
TRANSMEMBRANAIRES
IN KATO, Seishi;
SEKINE, Shingo
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
SEKINE, Shingo
LA English
DT Patent
PI WO 9918199 A2 19990415
DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE
AI WO 1998-JP4447 A 19981002
PRAI JP 1997-9/276270 19971008
ICM C12N015-12
ICS C07K014-705 ; C12N005-10

L3 ANSWER 59 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 1998055508 PCTFULL ED 20020514
TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE
PROTEINS
TIFR PROTEINES HUMAINES AYANT DES DOMAINES TRANSMEMBRANAIRES ET ADN CODANT
CES PROTEINES
IN KATO, Seishi;
SEKINE, Shingo;
YAMAGUCHI, Tomoko
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
SEKINE, Shingo;
YAMAGUCHI, Tomoko
LA English
DT Patent
PI WO 9855508 A2 19981210
DS W: AU CA JP MX US AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE
AI WO 1998-JP2445 A 19980603

PRAI JP 1997-9/144948 19970603
ICM C12N015-12
ICS C07K014-705 ; A61K038-17 ; C12N005-10 ; C12Q001-37 ;
C12N009-72 ;
C12N015-85

L3 ANSWER 60 OF 60 PCTFULL COPYRIGHT 2004 Univentio on STN
AN 1998021328 PCTFULL ED 20020514
TIEN HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE
PROTEINS
TIFR PROTEINES HUMAINES POSSEDENT DES DOMAINES DE TRANSMEMBRANE ET ADN CODANT
CES PROTEINES
IN KATO, Seishi;
SEKINE, Shingo;
YAMAGUCHI, Tomoko;
KOBAYASHI, Midori
PA SAGAMI CHEMICAL RESEARCH CENTER;
PROTEGENE INC.;
KATO, Seishi;
SEKINE, Shingo;
YAMAGUCHI, Tomoko;
KOBAYASHI, Midori
LA English
DT Patent
PI WO 9821328 A2 19980522
DS W: AU CA JP MX US AT BE CH DE DK ES FI FR GB GR IE IT LU MC
NL PT SE
AI WO 1997-JP4056 A 19971107
PRAI JP 1996-8/301429 19961113
ICM C12N015-12
ICS C07K014:705 ; C12N005:10 ; C12N015:57 ; C12N009:48 ;
C12N009:14 ;
C12N015:55